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Client: YIWU MENGYA COMMODITY EXCHANGE GOODS FIRM

Contact Information: Duantou 2nd District, 6th Building, 2nd House 322000 Yiwu Zhejiang,

China

Buyer's name: TRENDY STORE GMBH

Identification/ TPE disposable gloves, S/M/L/XL

*Model No(s):* 13684/13685/13686/13687

Sample obtaining method: Sending by customer

Sample Receiving date: 2020-11-23

**Testing Period:** 2020-11-23 to 2020-11-30

**Delivery condition:** Apparent good, Samples tested as received

Tes	st Specification:	Test result:
Cus	stomer's requirement:	
1.	Sensorial Examination	PASS
2.	Global Migration	PASS
3.	Specific Migration of metals, Metal-release from Plastic	PASS
4.	Colourfastness	PASS
5.	Softeners screening	PASS
6.	REACH Regulation (EC) No. 1907/2006, the last amendment (EU) 2015/628 entry 63 of Annex XVII - Total Lead Content	PASS
7.	Total Cadmium Content	PASS
8.	Polycyclic aromatic hydrocarbons (PAHs)	PASS
9.	Phthalates	PASS
10.	Short Chain Chlorinated Paraffin (SCCP)	PASS
11.	Organotin compounds content	PASS

#### Other information:

Country of Origin: China

For and on behalf of

2020-12-01

TÜV Rheinland/CCIC (Ningbo) Co., Ltd.

Mandy Wu / Senior Project Coordinator

Date Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed. This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.



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**Material List:** 

TPE disposable gloves, S/M/L/XL Item:

13684/13685/13686/13687

Material No.	Material	Color	Location
M001	Plastic, TPE	black	TPE disposable gloves



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#### 1.Sensorial Examination

Test Method:

It is examined to the extent of food simulant being used, which comes into contact with the product, undergoes detectable changes in taste and smell.

For this purpose, the food simulant was stored in the product under the below mentioned time and temperature. Afterwards, the food simulant was examined by an appropriate number of tasters with regard to any divergence in smell and taste. Another test sample, which was used as a reference, was treated by the same way except that it had no contact with the product to be tested.

Before testing, the product had been cleaned according to the product's instruction manual or in the absence of such manual, by normal household cleaning.

The test is carried out on the basis of DIN 10955:2004 by paired comparison test:

Evaluation shceme:

0 = No discernible deviation

1 = Barely discernible deviation

2 = Weak deviation

3 = Clear deviation

4 = Strong deviation

Limit: 3 (failed)

The following food simulants and conditions were applied:

Food simulant	Test duration / Temperature
Water	0.5 hour(s) / 40°C

Test No.:	T001
Material No.:	M001
Parameter	Result
Transfer of Smell:	0
Transfer of Taste:	0

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# 2.Global Migration

Test Method: The migratory behaviour is examined in accordance with Directive 82/711/EEC and Council

Directive 85/572/EEC and its corresponding regulations. Deviating to the regulations the

following tests were performed as orientating single tests.

Limit Commission Regulation (EU) No 10/2011 and amendments

The following food simulant and condition was applied:

Food simulant	Test duration / Temperature
3% Acetic acid	2 hours / 70°C
95% Ethanol	2 hours / 60°C
Isooctane	0.5 hour(s) / 40ºC

Test No.:	T001			
Material No.:	M001			
Migration ratio:	167 ml/dm²			
Parameter	Unit	Result	Limit	
3% Acetic acid	mg/dm²	4	10	
95% Ethanol	mg/dm²	< 2	10	
Isooctane	mg/dm²	< 2	10	

Abbreviation : mg/dm<sup>2</sup> = milligram per square decimeter

< = less than



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# 3. Specific Migration of metals, Metal-release from Plastic

Test Method: The migratory behaviour is examined with reference to Chapter V, Article

18 of Commission Regulation 10/2011 and its amendments. The

determination of amounts of metals that were released is done via ICP-MS.

Limit Commission Regulation (EU) No 10/2011 and its amendments

The following food simulant and condition was applied:

Food simulant	Test duration / Temperature
3% Acetic acid	0.5 hour(s)/ 40°C

Test No.:	T001				
Sample No.:	M001				
Migration Ratio:	167 ml/dm²				
Parameter	Unit	RL	Result	Limit	
Aluminium	mg/kg	0.1	< 0.1	1	
Antimony	mg/kg	0.01	< 0.01	0.04	
Arsenic	mg/kg	0.01	< 0.01	n.d. (<0.01)	
Barium	mg/kg	0.1	< 0.1	1	
Cadmium	mg/kg	0.002	< 0.002	n.d. (<0.002)	
Total Chromium	mg/kg	0.01	< 0.01	n.d. (<0.01)	
Cobalt	mg/kg	0.01	< 0.01	0.05	
Copper	mg/kg	0.1	< 0.1	5	
Iron	mg/kg	1.0	< 1	48	
Lead	mg/kg	0.01	< 0.01	n.d. (<0.01)	
Lithium	mg/kg	0.1	< 0.1	0.6	
Manganese	mg/kg	0.1	< 0.1	0.6	
Mercury	mg/kg	0.01	< 0.01	n.d. (<0.01)	
Nickel	mg/kg	0.01	< 0.01	0.02	
Zinc	mg/kg	1.0	< 1	5	
Europium	mg/kg	0.01	< 0.01		
Gadolinium	mg/kg	0.01	< 0.01		
Lanthanum	mg/kg	0.01	< 0.01		
Terbium	mg/kg	0.01	< 0.01		
Sum of Lanthanide substances	mg/kg	0.01	< 0.01	0.05	

Abbreviations: RL= Reporting limit

mg/kg = Milligram per kilogram

n.d. = Not detected (< Reporting limit)

< = Less than



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# 4. Colourfastness

Test method: Resolution AP (89) 1 on the use of colorants in plastic materials coming into contact

with food, Appendix III

Limit: Resolution AP (89) 1 on the use of colorants in plastic materials coming into contact

with food - No transfer of colorants to foodstuffs is permitted

Test No.:	T001		
Sample No.:	M001		
Parameter Colourfastness to	Difference between blank and filter paper contacted with sample		
Water	No		
Acetic acid 3 %	No		
Ethanol 50 %	No		
Oil	No		



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# 5. Screening of Plasticizer

Test method: Extraction and Detection with reference to CPSC-CH-C1001-09.3. Screening list of

plasticizers acc. to table 1.

Limit: Commission Regulation (EU) No 10/2011 and amendments

Test No.:	T001				
Sample No.:	M001				
Parameter	CAS No. Unit RL Result Limit (1, 2)				
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	0.1
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	0.1
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	0.05
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	< RL	0.1
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	< RL	0.1

#### Abbreviations:

< = Less than

RL = Reporting Limit

% = Percentage

### Remark:

- \*1 If used as a plasticizer the following restrictions apply:
  - BBP, DINP, DIDP: Can be used as a) as a plasticizer in repeated use materials and articles or b) as a plasticizer in single-use materials and articles containing non-fatty foods except for infant formulae and follow-on formulae as defined by Directive 2006/141/EC or processed cereal-based foods and baby foods for infants and young children as defined by Directive 2006/125/EC
  - DEHP, DBP: Can be used as a plasticizer in repeated use materials and articles contacting non-fatty foods

Further limitations concerning the specific migration of the respective substance still apply.

\*2 If used as a technical support agent the total content limitation of the respective substance within the final product apply as indicated in the table above.



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Table 1: Screening List of Plasticizer		
Plasticizer Name	CAS No.	
Di-n-pentylphthalat (DnPP)	131-18-0	
Benzylbutyl phthalate (BBP)	85-68-7	
Diethylhexyl phthalate (DEHP)	117-81-7	
Dibutyl phthalate (DBP)	84-74-2	
Dijaananyi phthalata (DIND)	28553-12-0,	
Diisononyl phthalate (DINP)	68515-48-0	
Dijaadaayd shthalata (DIDD)	26761-40-0,	
Diisodecyl phthalate (DIDP)	68515-49-1	
Di-n-octylphthalat (DNOP)	117-84-0	
Dimethylphthalat (DMP)	131-11-3	
Diethylphthalat (DEP)	84-66-2	
Butyl-i-butylphthalat	17851-53-5	
Trimethylpentandiolisobutyrat (TXIB)	6846-50-0	
Diisononyladipat (DINA)	33703-08-1	
Acetyltributylcitrat (ATBC)	77-90-7	
Diethylhexyladipat (DEHA)	103-23-1	
Hexamoll®	166412-78-8	
Mesamoll®	91082-17-6	
Triphenylphosphat	115-86-6	
Tri-o-kresylphosphat	78-30-8	
Tri-m-kresylphosphat	563-04-2	
Tri-p-kresylphosphat	78-32-0	
Butylbenzoat	136-60-7	
Di(propylen glycol) dibenzoat, DPGDB	27138-31-4	
Di(ethylen glycol) dibenzoat, DEGDB	120-55-8	
LG FLEX EBN	610787-77-4	
LG FLEX BET	610787-76-3	
Tri(ethylhexyl)trimellitat, TOTM	3319-31-1	
2-Ethylhexyldiphenylphosphat	1241-94-7	
Di-iso-heptylphthalat, DIHeP	90937-19-2,	
Di-180-Heptyiphiliaiat, DIFIEF	71888-89-6	

Plasticizer Name	CAS No.
Pentyl-iso-pentylphthalat	84777-06-0
Bis-(2-methoxyethyl)phthalat	117-82-8
Diethylhexylterephthalat (DEHT)	6422-86-2
Di-(2-butoxyethyl)phthalat	117-83-9
Diallylphthalat	131-17-9
Dicyclohexylphthalat (DCP)	84-61-7
Bis-(3,5,5-trimethylhexyl)phthalat	14103-61-8
Dicapryladipat	108-63-4
Di a butula da et (DDM)	1190-39-2,
Di-n-butylmaleat (DBM)	105-76-0
Di-(2-ethylhexyl)maleat	142-16-5
Butylstearat	123-95-5
Dimethyladipat	627-93-0
Dibutyladipat	105-99-7
Diigadaa dadiigat	27178-16-1,
Diisodecyladipat	27193-86-8
Di(2-(2-butoxyethoxy)ethyl)adipat	141-17-3
Bis(2-butoxyethyl)adipat	141-18-4
Stearylstearat	2778-96-3
Di-n-propylphthalat	131-16-8
Di-n-hexylphthalat, DNHP	84-75-3
Di-n-heptylphthalat	3648-21-3
Di-n-nonylphthalat, DnNP	84-76-4
Di-n-decylphthalat	84-77-5
Di-n-undecylphthalat	91082-17-6
Diisoundecylphthalat, DIUP	96507-86-7
Di(2-propylheptyl)phthalat, DPHP	53306-54-0
Diisooctylphthalat, DIOP	27554-26-3
Diisobutylphthalat, DIBP	84-69-5
Diisopentylphthalat DiPP	605-50-5

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### 6.Total Lead

Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 and CPSC-CH-E1003-09.1 (Microwave

method)

# Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M001	Lead Content	%	0.001	0.05	< RL

**Abbreviation:** < = less than

RL = Reporting Limit % = percentage

### Remark:

\* Regulation on Lead:

Country	Legislation	Maximum Permissible Limit
EU	Paragraph 1-6 of Entry 63 of Annex XVII, REACH Regulation (EC) No. 1907/2006	For Jewellery, imitation jewellery, hair accessories, bracelets, necklaces, rings, piercing jewellery, wrist watches, wrist-wear, brooches and cufflinks and parts used for jewellery-making  0.05%  (by weight of the individual part)
	Paragraph 7-10 of Entry 63 of Annex XVII, REACH Regulation (EC) No. 1907/2006	Articles supplied to the general public during normal or reasonably foreseeable conditions of use, be placed in the mouth by children  0.05% (by weight of the individual part)  The limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0,05 µg/cm² per hour (equivalent to 0,05 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a period of at least two years of normal or reasonably foreseeable conditions of use of the article.



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### 7.Total Cadmium Content

Test Method: For plastic: EN 1122:2001 (method B)

For metal and other material: Acid digestion, analyzed by AAS/ ICP-OES

# **Test Result:**

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
		Trial 1	mg/kg	10	100	< RL
T001	M001	Trial 2	mg/kg	10	100	< RL
		Average	mg/kg	10	100	< RL

**Abbreviation:** < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

### Remark:

\*Regulations on Cadmium

		Maximum Permissible Limit				
EU	Legislation	Plastic materials	Paint (wet state)	Paint on the painted articles	Paint (high zinc content)	Metal parts of jewellery and imitation jewellery articles and hair assessories
EC	REACH regulation (EC) No. 1907/2006 Annex XVII Item 23 and its amendments (EC) No. 552/2009, (EU) No. 494/2011, (EU) No. 835/2012 and (EU) No. 217/2016.	100mg/kg	100mg/kg	1000mg/kg	1000mg/kg	100mg/kg

		Maximum Permissible Limit
Country	Legislation	Paint, plastic, plating/ coating of surface treatment
Switzerland	Switzerland Chemikalien- Risikoreduktions-Verordnung- ChemRRV, 814.81, 18 May 2005	100mg/kg



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# 8. Polycyclic aromatic hydrocarbons (PAHs)

Test Method: AfPS GS 2014:01 PAK

### **Test Result:**

		Te	st No.	T001		
		Materi	al No.	M001		
Test Parameter	CAS NO	Unit	RL	Result		
Acenaphthene	83-32-9	mg/kg	0.2	< RL		
Acenaphthylene	208-96-8	mg/kg	0.2	< RL		
Anthracene	120-12-7	mg/kg	0.2	< RL		
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.2	< RL		
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.2	< RL		
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.2	< RL		
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.2	< RL		
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.2	< RL		
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	< RL		
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.2	< RL		
Chrysene (CHR)	218-01-9	mg/kg	0.2	< RL		
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.2	< RL		
Fluoranthene	206-44-0	mg/kg	0.2	< RL		
Fluorene	86-73-7	mg/kg	0.2	< RL		
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	< RL		
Naphthalene	91-20-3	mg/kg	0.2	< RL		
Phenanthrene	85-01-8	mg/kg	0.2	< RL		
Pyrene	129-00-0	mg/kg	0.2	< RL		
Sum of Acenaphthylene, Acenaphthene, Anthracene, Fluoranthene, Fluorene, Phenanthrene, Pyrene	-	mg/kg	-	<rl< td=""></rl<>		
Sum of 18 PAHs	-	mg/kg	-	<rl< td=""></rl<>		
Category*	-		-	1		
Conclusion PASS						

**Abbreviation:** < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram



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### Remark:

PAH maximum permissible limits requirement from the GS-Mark Approval published by the German Federal Institute for Occupational Safety and Health (BAuA)

		Category 1	Catego	ory 2	Category 3	
Parameter	Unit	Materials intended to be put into the mouth or materials of toy for children with long term intended skin contact (longer than 30 s)	skin contact	oreseeable ntact (longer	Materials not covered by category 1 or 2, with foreseeable short term contact (shorter than 30s)	
		-	Toys according to directive 2009/48/EC	Other products according to ProdSG	Toys according to directive 2009/48/EC	Other products according to ProdSG
Benzo[a]pyrene(BaP)	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	mg/kg	<0.2	<0.2 <0.5		<0.5	<1
Benzo[b]fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	mg/kg	<0.2	<0.2 <0.5		<0.5	<1
Benzo[k]fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo[a,h]anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo[g,h,i]perylene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Indeno[1,2,3-cd]pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Naphthalene	mg/kg	<1	<2	<2	<10	<10
Sum of Acenaphthylene Acenaphthene Anthracene Fluoranthene Fluorene Phenanthrene Pyrene	mg/kg	<1	<5	<10	<20	<50
Sum of 18 PAHs	mg/kg	<1	<5	<10	<20	<50

Limit: Specific evaluation required according to type of foreseeable use.

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<sup>\*\*</sup> Single components with an amount of <0.2 mg/kg were not considered by the calculation of the sum.



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#### 9.Phthalates

Test Method: Organic solvent extraction, analyzed by GCMS

# **Test Result:**

Test No.						
Material No.						
Test Parameter	CAS NO	Unit	RL	Customer's Requirement	Result	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	< RL	
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	0.1	< RL	
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	0.1	< RL	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	0.1	< RL	
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	0.1	< RL	
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	0.1	< RL	
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	0.1	< RL	
Sum of above 7 phthalates	NA	%	NA	0.1	<rl< td=""></rl<>	

**Abbreviation:** < = less than

RL = Reporting Limit NA = Not Applicable % = percentage



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# 10.Short Chain Chlorinated Paraffin (SCCP)

Test Method: Leather material: ISO 18219: 2015

Non-leather materials: CADS method

### Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Result
T001	M001	SCCP	mg/kg	100	1500	< RL

**Abbreviation:** < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

SCCP = Short Chain Chlorinated Paraffin C<sub>10</sub>-C<sub>13</sub>

1% = 10000 mg/kg

### Remark:

\* According to Commission Regulation (EU) No 2015/2030 amending Regulation (EC) No 850/2004 on persistent organic pollutants (POP Regulation) as regards Annex I:

Alkanes C <sub>10</sub> -C <sub>13</sub> , chloro (short-chain chlorinated paraffins) (SCCPs)	Maximum Permissible Limit
The production , placing on the market and use of articles containing SCCPs	< 0.15% by weight
The production , placing on the market and use of substances or preparations containing SCCPs	< 1% by weight



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# 11.Organotin compounds content

Test Method: Organic solvent extraction, GCMS

Ref. to ISO/TS 16179:2012

			Test No.	T001
			Material No.	M001
Test Parameter	Unit	RL	Regulatory Requirement	Result
TBT(Tributyltin) by weight of tin	%	0.01		< RL
TPT(Triphenyltin) by weight of tin	%	0.01		< RL
TOT(Trioctyltin) by weight of tin	%	0.01		< RL
TCyT(Tricyclohexyltin) by weight of tin	%	0.01		< RL
TPrT(Tripropyltin) by weight of tin	%	0.01		< RL
Sum of Tin of tri- substituted organotins	%	NA	0.1	<rl< td=""></rl<>
DBT(Dibutyltin) by weight of tin	%	0.01	0.1	< RL
DOT(Dioctyltin) by weight of tin	%	0.01	0.1	< RL

**Abbreviation:** < = less than

RL = Reporting Limit % = percentage NA = Not Applicable



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### Remark:

- Single components with an amount of <0.01% were not considered in the calculation of the sum. In the case of all five tri-substituted organities were not detected, the result is stated < RL
- The assessment for tri-substituted organotins is based on the sum of TBT, TPT, TOT, TCyT and TPrT by weight of tin only.
- \*\*\* According to REACH Regulation (EC) No. 1907/2006 Annex XVII Entry 20 and amendment Commission Regulation (EU) No. 276/2010 (formerly known as 2009/425/EC), organostannic compounds shall not be used or be placed on the market.

Type of organostannic compounds	Maximum Permissible Limit	Implementation date
Tri-substituted organostannic compounds, e.g. tributyltin (TBT) compounds and triphenyltin (TPT) compounds	0.1 % by weight of tin	1 July 2010
Dibutyltin (DBT) compounds in mixtures and articles for supply to the general public	0.1 % by weight of tin	1 January 2012  The below products will not be applicable until 1 January 2015: - one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, - paints and coatings containing DBT compounds as catalysts when applied on articles, - soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, - fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications, - outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and facades
Dioctyltin (DOT) compounds  - textile articles intended to come into contact with the skin,  - gloves,  - footwear or part of footwear intended to come into contact with the skin,  - wall and floor coverings  - childcare articles,  - female hygiene products,  - nappies,  - two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	0.1 % by weight of tin	1 January 2012



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# Sample Photos







Sample 1

- END -

#### General Terms and Conditions of Business of TÜV Rheinland in Greater China

- These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTCB") is made between the client and one or more member entities of TÜV Rheinland in Greater China as applicable as the case may be CTÜV Rheinland. The Greater China hereof refers to Mainland China, Hong Kong and Taiwan. The client hereof includes:
- a natural person capable to form legally binding contracts under the applicable laws who concludes the contract not for the purpose of a daily use;
- (ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.
- 1.2 The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.
- Any standard terms and conditions of the client of any nature shall not apply and sha hereby be expressly excluded. No standard contractual terms and conditions of the clien shall form part of the contract even if TÜV Rheinland does not explicitly object to them.
- In the context of an ongoing business relationship with the client, this GTCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately

Unless otherwise agreed, all quotations submitted by  $T\bar{U}V$  Rheinland can be changed by  $T\bar{U}V$  Rheinland without notice prior to its acceptance and confirmation by the other party.

#### Coming into effect and duration of contracts

- The contract hall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, upon the works requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation instructs TÜV Rheinland, in its sed discretion, entitled to accept the order by giving written coil of such acceptance (including notice sent via electronic means) or by performing the requested service.
- 3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.
- 3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a six-week notice prior to the end of the contractual term.

#### Scope of services

- The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the service to be provided.
- 4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.
- TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.
- On execution of the work there shall be no simultaneous assumption of any guarar the correctness (proper quality) and working order of either tested or examined parts the installation as a whole and its upsteam and/or downstream pocasess, organisuse and application in accordance with regulations, nor of the systems on which installation is based. In particular, TIVP Rhenitand shall assume no responsibility construction, selection of materials and assembly of installations examined, nor for use and application in accordance with regulations, unless these questions are exprecised by the contract.
- 4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.
- 4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TV Rheinland shall be entitled to additional remuneration for resulting additional expenses.
- 4.7The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and usifying confidence in the work results (test reports, test results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes on work results in full or in extracts to third parties in accordance with clause 11.4.

#### Performance periods/dates

- The contractually agreed periods/dates of performance are based on estimates involved which are prepared in line with the details provided by the client. They be binding if being confirmed as binding by TÜV Rheinland in writing.
- If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.
- 5.3 Articles 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland.
- 5.4TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfillided his duties to cooperate in accordance with clause 6.1 or has not done so in time and, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.
- 5.5If the performance of TUV Phiniand is delayed due to unforesceable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc. TUV Pheniand is entitled to postpore performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

#### The client's obligation to cooperate

- The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.
- 6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, staffacts, safety regulations and accident prevention instructions. And the client represents and warrants that:
- a) it has required statutory qualifications:
- b) the product, service or management system to be certified complies with applicable laws and regulations; and
- c) it doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.
- If the client breaches the aforesaid representations and warranties, TŪV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.
- 6.3 The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

- If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.
- 7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.
- 7.3 If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds £2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

- All invoice amounts shall be due for payment without deduction on receipt of the invoice. No discounts and rebates shall be granted.
- 8.2 Payments shall be made to the bank account of TÛV Rheinland as indicated on the invoice, stating the invoice and client numbers.
- 8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term loan interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.
- Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the
- 8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.

- 8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two wrot receipt of the invoice
- 8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments
- 8.7 I UV Hinemand shall be entitled to desire fieles at the beginning of a month if overheads and/or purchase costs have increased. In this case, TDV Rheinland shall be intelled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TDV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceed 5% per contractual year, the client shall be described to the right to terminate the contract in the right to terminate the contract is not terminated, the changed fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.
- 8.9 Only legally established and undisputed claims may be offset against claims by TÜV Rheinland.

- 9.1 Any part of the work result ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it
- 9.2 If acceptance is required or contractually agreed in an individual case, this shall be dec to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundmental breach of contract by TÜV Rheinland.
- 9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.
- 9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place.
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  9. off the clearly was unable to make use of the time windows provided for within the scope of contribution procedure for auditing/performance by TDV. Rheinland and the certificate tested to the process of the contribution of th
- 9.6 Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to charge lump-sun damages in the amount of 10% of the order amount as compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump and the contraction of the place of the reserves the reser

- 10. Confidentiality
  10.1 For the purpose of these terms and conditions, "confidential information" means all information, documents, images, drawings, know-how, data, samples, and project documentation which one party (the "disclosing party") hand be confidential information cauding performance of work by TUP Rheinfand, including product testing data, defects, conformity to the technical standard and related reports. Confidential information is exp not the data and know-how collected, compled or otherwise obtained by TUP Rheinfand (non-personal) within the scope of the provision of services by TUP Rheinfand. TUV Rheinfand is entitled to store, use, further develop and pass on the data obtained in connection with the provision of services by the purposes of developing new services, improving services and analysing the provision of services.
- 10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information it naramitted by e-mail. It confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party tails to do so within the stipulated period, the receiving party shall not take any confidentiality holigations her enurient towards such information.
- 10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of work by TÜV Rheinland:

a)may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party;

b)may not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TUV Rheinland is require to pass on confidential information, inspection reports or documentation to the governmen authorities, judicial court, accreditation bodies or third parties that are involved in the performance of the contract:

community to the real of the treated by the receiving party with the same level of confidentiality as the party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is reasonably required.

- 10.4 The receiving party may disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party undertakes to oblige these employees to observe the same level of secrecy as set forth in this confidentiality clause.
- 10.5 Information for which the receiving party can furnish proof that:
  - a)it was generally known at the time of disclosure or has become general knowledge without violation of this confidentiality clause by the receiving party; or
  - b)it was disclosed to the receiving party by a third party entitled to disclose this information; or c)the receiving party already possessed this information prior to disclosure by the disclosing party; or

d)the receiving party developed it itself, irrespective of disclosure by the disclosing party, sha not be deemed to constitute "confidential information" as defined in this confidentiality clause

- 10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copie party hareby agrees to immediately (i) return all confidential information, including all copie to the disclosing party, and/or (ii) on request by the disclosing party, to destroy all confidential returns on the disclosing party, and/or (ii) on request by the disclosing party, to destroy all confidential returns on the disclosing party in writing, at any time if so requested by the disclosing party but at the latest and without special request after termination or expiry of the contract. This does not extend to include reports and certificates prepared for the clients obley for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, TÜ Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to evidence the correctness of its results and for general documentation purposes required by laws, regulations and the requirements of working procedures of TÜV Rheinland.
- 10.7 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

# 11. Copyrights and rights of use, publications

- 11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use r/tight of use?
- 11.2 The client receives a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports opinions, lest reports results, results calculators, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.
- 11.3 The transfer of right of use of the generated work results regulated in clause 11.2. of the GTCB is subject to full payment of the remuneration agreed in favour of TÛV Rheinland.
- 11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results
- 11.5 Any publication or duplication of the work results for advertising purposes or any further u the work results beyond the scope regulaed in clause 11.2 needs the prior written appror T/U Rheinland in each individual case.
- 11.6 TÜV Rheinland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately at his own expense and, as far as possible, to withdraw publications.
- The consent of  $T\ddot{U}V$  Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or test/certification mark of  $T\ddot{U}V$

#### 12 Liability of TÜV Rheinland

12.1 Irrespective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract or anoutaly recurring services, the agreed annual fee; (iii) in the case of a contract or annually recurring services, the agreed annual fee; (iii) in the case of a contract or entire the contract of the co

orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, in the event that the total and accumulated liability accumulated like calculated according to the foregoing provisions exceeds 2.5 Million Euro or equivament in local currency, the total and accumulated liability of TÜV Rheinland shall be limited to and shall not exceed the said 2.5 Million Euro or equivalent amount in

- 12.2 The limitation of liability according to article 12.1 above shall not apply to damages losses caused by malice, intent or gross negligence on the part of TÜV Rheinland vicarious agents. Such limitation shall not apply to damages for a person's death, pirgury or illness.
- 12.3 In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even w minor negligence is involved. For this purpose, a "fundamental breach" is breach of a man contractual obligation, the performance of which permits the due performance of the cont Any claim for damages for a fundamental breach of contract shall be limited to the amou damages reasonably foreseen as a possible consequence of such breach of contract a time of the breach (reasonably foreseeable damages), unless any of the circumstal described in article 12.2 applies.
- 12.4 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services under the contract, unless such personnel made available is regarded as vicarious agend of TÜV Rheinland. IT TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from or in connection with such personnel's acts.
- 12.5 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the client.
- 12.6 The limitation periods for claims for damages shall be based on statutory provisions
- 12.7 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client

- 13.1When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.
- 13.2The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations on embargos and/or sanctions. In the event of a violation, TUV Pheniand shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incured there by TUV Rheinland.

#### 14. Data protection notice

Data protection notice

TÜV Rheinland processes personal data of the client for the purpose of fulfilling this contract. In addition, TÜV Rheinland also processes the data for other legal purposes in accordance with the relevant legal basis. The personal data of the client will only be disclosed to other natural or legal persons if the legal requirements are met. This also applies to transfers to hird countries. The personal data will be deleted immediately as soon as a corresponding reason for deletion arises. Data subjects may exercise the following rights: right of objection, right of oretification, right of orecessing limitation, right of objection, right of orecessing limitation, right of topic or the respective data processing have the right to reveke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisor subtrivity. For further death or processor, please refer to the respective data protection furnation. You can contact the Group Data Protection Officer of TüV Rheinland by e-mail at datenschutz@de.tuv.com or by post at the following address: TÜV Rheinland AG, o'o Group Data Protection Officer, Am Grauen Stein, 51105 Cologne, Germany.

#### 15. Test material: transport risk and storage

- 15.1The risk and costs for freight and transport of documents or test material to and from TÜV Rheinland as well as the costs of necessary disposal measures shall be borne by the client.
- 15.2Any destroyed and otherwise worthless test material will be disposed of by TŪV Rheinland for the client at the expense of the client, unless otherwise agreed.
- 15.3Undamaged test material shall be stored by TÜV Rheinland for four (4) weeks after completion of the test. If a longer storage period is desired, TÜV Rheinland charges an appropriate storage fee.
- 15.4After the expiry of the 4 weeks or any longer period agreed upon, the test material will be disposed of by TÜV Rheinland for the client for a fee in accordance with clause 15.2.

- 16.1 Notwithstanding clause 3.3 of the GTCB, TÜV Rheinland and the client are entitled to to the contract in its entirety or, in the case of services combined in one contract, ac-combined parts of the contract individually and independently of the contractualior remaining services with six (6) months' notice to the end of the contractually agreed te
- 16.2For good causes, TÜV Rheinland may consider giving a written notice to the client to terminate the contract which includes but not limited to the following:
- a) the client does not immediately notify TÜV Rheinland of changes in the conditions within the company which are relevant for certification or signs of such changes;
- b) the client misuses the certificate or certification mark or uses it in violation of the contract;
- c) in the event of several consecutive delays in payment (at least three times);
- d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to confiture the contractual relationship.
- 16.3.In the event of termination with written notice by TÜV Rheinland for good cause. TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the fixed contract term as lump-sum compensation. The client reserves the right to prove that there is no damage or a considerably lower damage, TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.
- 16.4TÜV Rheinland is also entitled to terminate the contract with written notice if the client has not been able to make use of the time windows for auditing /service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies

#### 17. Partial invalidity, written form, place of jurisdiction and dispute resolution

- 17.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.
- 17.2 Should one or several of the provisions under the contract and/or these terms and condition be or become ineffective, the contracting parties shall replace the invalid provision with legally valid provision that comes closest to the content of the invalid provision in legal are commercial terms.
- 17.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be chosen following the rules as below:
  - a)if TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of
  - b)if TŪV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.
- c)if TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.
- 17.4 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations. Unless otherwise stipulated in the contract, if no settlement or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:
  - ajin the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China international Economic and Trade Arbitration Commission (CIETAC) to be settled by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party.
  - b)in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association Taipel Branch to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.
  - c)in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled by arbitration under the HKIAC Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.
  - The decision of the relevant arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.