

Testing Parameters and Limit

测试项目及限量值

Product Class 产品分类	I Product for Babies 婴幼儿用品	II Product with direct skin contact 直接接触皮肤的产 品	III Product with no direct skin contact 非直接接触皮肤的 产品
Colorants 着色剂			
Azo Dyes (banned amines) 可裂解出疑致癌芳香胺的偶氮染料 ¹	Not to be used 不得使用 ²		
Carcinogenic Dyes 致癌染料 ¹	Not to be used 不得使用 ²		
Allergenic Dyes 致敏染料 ¹	Not to be used 不得使用 ²		
Other Dyes 其他染料 ¹	Not to be used 不得使用 ²		
Heavy Metals 重金属			
Chromium VI in Leather 皮革中六价铬	n/d 低于检出限 ²	n/d 低于检出限 ²	n/d 低于检出限 ²
Cadmium 镉 (ppm)	50	50	50
Lead 铅 (ppm)	40	90	90
Extractable Heavy Metals 可萃取重金属 (ppm)			
Sb 锑	5.0	5.0	30.0
As 砷	0.2	1.0	1.0
Pb 铅	0.2	1.0	1.0
Cd 镉	0.1	0.1	0.1
Cr 铬 ³	1.0	2.0	2.0
Cr (VI) 六价铬	n/d 低于检出限 ²		
Co 钴	1.0	4.0	4.0
Cu 铜	25.0 ⁴	50.0 ⁴	50.0 ⁴
Ni 镍	1.0	4.0	4.0
Hg 汞	0.02	0.02	0.02
Soluble Heavy Metals 可溶性重金属 (ppm) ⁵			
Sb 锑	60		
As 砷	25		
Ba 钡	1000		
Cd 镉	75		
Cr 铬	60		
Pb 铅	90		
Hg 汞	60		
Se 硒	500		
Nickel Release 镍释放量 ⁶	0.5µg/cm ² /week		
Pesticides & Fungicides 杀虫和防腐剂			

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Chlorinated Phenols 含氯酚 (ppm)			
Pentachlorophenol (PCP) 五氯苯酚	0.05	0.5	0.5
Tetrachlorophenol (TeCP) 四氯苯酚 ¹	0.05	0.5	0.5
Trichlorophenol (TriCP) 三氯苯酚 ¹	0.05	0.5	0.5
Pesticides 杀虫剂 ¹	Not to be used ² 不得使用		
Dimethylfumarate 富马酸二甲酯 ⁷	Not to be used ² 不得使用		
Dyeing carriers 染色载体			
Chlorinated Benzenes and Toluenes 氯苯和氯甲苯 ¹	Not to be used 不得使用 ²		
o-Phenylphenol (OPP) 邻苯基苯酚 (ppm)	50	100	100
Plasticizer 增塑剂			
Phthalates 邻苯二甲酸酯类增塑剂 ^{1,8}	0.1%		
Finishing & Auxiliary Chemicals 加工和整理用化学品			
Formaldehyde 甲醛 (ppm) ⁹	20	75	300
Forbidden Flame Retardants 禁用阻燃剂 ¹	Not to be used 不得使用 ²		
Organotin Compounds 有机锡化合物 (ppm)			
Tributyltin (TBT) 三丁基锡	0.025	0.025	1.0
Dibutyltin (DBT) 二丁基锡	0.5	0.5	1.0
Monobutyltin (MBT) 单丁基锡	0.5	0.5	1.0
Triphenyltin (TPhT) 三苯基锡	0.5	0.5	1.0
Dioctyltin (DOT) 二辛基锡	0.5	0.5	1.0
Alkylphenols (AP) 烷基酚 (ppm)			
Nonylphenol (NP) 壬基酚	30	30	30
Octylphenol (OP) 辛基酚	30	30	30
Alkylpheonl Ethoxylates (APEO) 烷基酚聚氧乙烯醚 (ppm)			
Nonylphenol Ethoxylates (NPEO) 壬基酚聚氧乙烯醚	100		
Octylphenol Ethoxylates (OPEO) 辛基酚聚氧乙烯醚	100		

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Perfluorooctane Sulfonates (PFOS) 全氟辛烷磺酰基化合物 (µg/m ²) ¹⁰	1		
Perfluorooctanoic Acid (PFOA) 全氟辛酸 (µg/m ²) ¹⁰	50		
Short-Chain Chlorinated Paraffins (SCCP) 短链氯化石蜡 (ppm)	100		
Other Concerned Parameters 其他相关项目			
Test of Odours 气味测试			
GB18401 (6.7) (中国标准)	No abnormal odor 无异味 ¹¹		
SNV 195651 (瑞士标准) ¹²	3		
Polycyclic Aromatic Hydrocarbons (PAH) 稠环芳香烃 ¹ (ppm)			
	BaP 苯并（a）芘: 1		
	Sum 16 PAH 16 种 PAH 总量: 10		
Volatile Organic Compounds 挥发性有机化合物 ^{13,14}	No residue 不得残留 ¹⁵		
Fluorinated greenhouse gases 氟化温室气体 ¹	Not to be used 不得使用 ¹⁶		
pH-value pH 值 ¹⁷	4.0-7.5	4.0-7.5	4.0-9.0
Colorfastness (Grade) 色牢度（级）			
to Water 耐水 ¹⁸	3-4	3-4	3-4
to Washing 耐洗 ¹⁸	3-4	3-4	3-4
to Acidic Perspiration 耐酸性汗渍 ¹⁸	3-4	3-4	3-4
to Alkaline Perspiration 耐碱性汗渍 ¹⁸	3-4	3-4	3-4
to Rubbing, Dry 耐干摩 ¹⁸	4	4	4
to Rubbing, Wet 耐湿摩 ¹⁸	3	3	3
to Saliva and Perspiration 耐唾液和汗渍	Fast 坚牢		
to Light 耐光 ¹⁸	3-4	3-4	5

Notes/注释:

- The individual substances are listed in ECO-D05. 具体的化学物质清单见文件 ECO-D05。

2. Limit: AZO dyes (amines): 20 ppm, carcinogenic, allergenic dyes& other dyes: 1mg/L, chromium VI: 0.5 ppm and 3 ppm for textiles and leather respectively, pesticides: 0.5 ppm, dimethylfumarate: 0.1 ppm, chlorinated benzenes and toluenes: 1 ppm, flame retardants: 5ppm(except for tris(2-chloroethyl)phosphate: 10ppm),. 限量: 禁用偶氮染料(疑致癌芳香胺): 20 ppm, 致癌、致敏染料和其他染料: 1 mg/L(萃取液), 六价铬: 对纺织产品 0.5 ppm、对皮革产品 3 ppm, 杀虫剂: 0.5 ppm, 富马酸二甲酯: 0.1 ppm, 氯苯和氯甲苯: 1 ppm, 禁用阻燃剂: 5 ppm(除三(2-氯乙基)磷酸酯: 10ppm),
3. No requirement for leather products. 对皮革制品无要求。
4. No requirement for metal accessories. 对由金属制成的辅料无要求。
5. For plastic and metal accessories in the articles for babies and children up to the age of 14 years and not required for stainless steel products. And soluble Pb and soluble Cd are also required for PVC synthetic leather.对 14 周岁及以下儿童用品中的塑料和金属辅料有要求, 纯不锈钢材料制成的产品除外。对 PVC 人造革, 要求可溶性铅和可溶性镉达到标准。
6. For metal accessories only. 仅适用于金属辅料。
7. For leather only. 仅适用于皮革产品。
8. For plastic materials, coated fabrics, pigment printing products and coated leather only. 仅对塑料材料、涂层织物、涂料印花产品和涂饰皮革产品有要求。
9. Free and hydrolyzed formaldehyde. 游离和水解的甲醛。
10. For materials with water, oil and soil repellent finishing or coating only. 仅针对防水、防油、防污整理或涂层的产品。
11. For textile, no odor from mould, high boiling fraction of petrol, fish, aromatic hydrocarbons or perfume. 对纺织, 无霉味、高沸石油馏份气味、鱼腥味、芳香烃或香水味。
12. For textile carpets, mattresses, foam and large coated articles. 适用于纺织地毯、床垫、发泡材料以及大面积涂层材料制品。
13. Test is based on HS-GC/MS method. Compounds fall into the retention time range of Hexane and Dodecane are defined as VOC (volatile organic compounds). 采用顶空气质联用分析方法, 保留时间处于正己烷至正十二烷范围内的化合物被定义为挥发性有机化合物(VOC)。
14. VOC test will be conducted if the tested goods cannot pass the Odour test.。当样品不能通过气味测试时才需进行 VOC 测试。
15. Limit: benzene: 5 ppm, toluene: 100 ppm, total other VOC: 1000 ppm. 限量: 苯: 5 ppm, 甲苯: 100 ppm, 其他 VOC 总量: 1000 ppm。
16. Limit: 1ppm. 限量: 1ppm
17. For products which will be treated in further wet processing, a pH value within 4.0-10.5 is acceptable. For coated or laminated products under product class III, a pH value within 3.5-9.0 is acceptable also. For leather products, the pH value should be within 3.5-7.0 (for suede, pH value within 3.5-8.0 is acceptable). 对那些在后续加工中还需进行湿处理的产品, pH 值允许在 4.0-10.5 之间; 对第三级别的涂层或复合产品, pH 值允许在 3.5-9.0 之间; 对皮革制品, pH 值需在 3.5-7.0 之间(绒革允许在 3.5-8.0 之间)。
18. For products dyed with pigments, vat or sulphurous colorants, a minimal grade of color fastness to rubbing of 3 (dry) and 2 (wet) are acceptable. For swimwear, a minimal grade of color fastness to light of 5 should be reached. For products dyed with natural dyes, the requirements of color fastness are reduced one grade except colorfastness to saliva and perspiration. 对使用涂料、还原或硫化染料染色的产品, 耐干摩色牢度最低可以为 3 级, 耐湿摩色牢度最低可为 2 级。对泳衣, 耐光色牢度至少需达到 5 级。对于天然染料染色的产品, 色牢度要求分别降一级(除了耐唾液和汗渍色牢度)。