

检测报告

编号: TSNRS2201285902

日期: 2022年06月15日 第1页,共6页

客户名称: 天津新龙桥工程塑料有限公司、东莞新长桥塑料有限公司、宁波新桥化工有限公司
客户地址: 天津市塘沽区临港经济区渤海十二路1126号、广东省东莞市沙田镇港口工业区、浙江省宁波市北仑区金鸡山路98号

样品名称: 聚苯乙烯塑料颗粒 ;E料
以上样品及信息由客户提供。

SGS工作编号: TJRTZ22050032 - TJ
样品接收日期: 2022年05月23日
检测周期: 2022年05月23日 - 2022年06月01日
检测要求: 根据客户要求检测
检测方法: 请参见下一页
检测结果: 请参见下一页

检测结果概要:

检测要求	结论
美国包装材料法案中规定的有害物质 (TPCH - 包装材料中有害物质) — 总铅、镉、汞和六价铬的含量	符合
美国包装材料法案中规定的有害物质 (TPCH - 包装材料中有害物质) — 全氟和多氟烷基化合物 (PFAS) 含量的总氟筛选检测	符合
美国包装材料法案中规定的有害物质 (TPCH - 包装材料中有害物质) — 邻苯二甲酸酯含量	符合
美国包装材料法案中规定的有害物质 (TPCH - 包装材料中有害物质) - 全氟和多氟烷基化合物 (PFAS) 含量	符合

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授权签名



Reabeca Zhou 周艳
批准签署人



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检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	TSN22-012859.001	白色塑料颗粒

备注:

- (1) 1 mg/kg = 0.0001%
 (2) MDL = 方法检测限
 (3) ND = 未检出 (< MDL)
 (4) "-" = 未规定

美国包装材料法案中规定的有害物质 (TPCH - 包装材料中有害物质) — 总铅、镉、汞和六价铬的含量

检测方法: 样品消解. 采用ICP-OES分析镉, 铅, 汞含量, 采用UV-Vis分析六价铬含量.

检测项目	限值	单位	MDL	001
铅 (Pb)	-	mg/kg	5	ND
镉 (Cd)	-	mg/kg	5	ND
汞 (Hg)	-	mg/kg	5	ND
六价铬 (CrVI)	-	mg/kg	8	ND
总量 (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND
结论	符合			

备注:

(1) TPCH中关于包装材料中铅、镉、汞和六价铬有害物质的相关规定由以下州(美国)审议并立法通过: 加利福尼亚州、康涅狄格州、佛罗里达州、乔治亚州、伊利诺伊州、爱荷华州、缅因州、马里兰州、明尼苏达州、密苏里州、新罕布什尔州、新泽西州、纽约州、宾夕法尼亚州、罗德岛州、佛蒙特州、弗吉尼亚州、华盛顿州和威斯康星州。

美国包装材料法案中规定的有害物质 (TPCH - 包装材料中有害物质) — 全氟和多氟烷基化合物 (PFAS) 含量的总氟筛选检测

检测方法: 参考EN 14582:2016, 采用IC进行分析。

检测项目	限值	单位	MDL	001
全氟和多氟烷基化合物(总氟筛选)	★	mg/kg	50	ND
结论	符合			



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备注:

(1) “★” = 禁止使用

(2) TPCH 将PFAS定义为一类化学物质, 但官方并没有给出PFASs的清单, 结论是根据与客户商定检测的总氟含量得出的。

美国包装材料法案中规定的有害物质(TPCH - 包装材料中有害物质) — 邻苯二甲酸酯含量

检测方法: 参考CPSC-CH-C1001-09.4(2018), 采用GC-MS分析。

检测项目	CAS NO.	限值	单位	MDL	001
邻苯二甲酸丁苄酯 (BBP)	85-68-7	-	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	84-74-2	-	mg/kg	50	ND
邻苯二甲酸二(2-乙基)己酯 (DEHP)	117-81-7	-	mg/kg	50	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0	-	mg/kg	50	ND
	/68515-48-0				
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	-	mg/kg	50	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0/	-	mg/kg	50	ND
	68515-49-1				
邻苯二甲酸二正己酯 (DnHP)	84-75-3	-	mg/kg	50	ND
邻苯二甲酸二甲酯 (DMP)	131-11-3	-	mg/kg	50	ND
邻苯二甲酸二乙酯 (DEP)	84-66-2	-	mg/kg	50	ND
邻苯二甲酸二丙酯 (DPrP)	131-16-8	-	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	-	mg/kg	50	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	-	mg/kg	50	ND
邻苯二甲酸二环己酯 (DCHP)	84-61-7	-	mg/kg	50	ND
邻苯二甲酸二异辛酯 (DIOP)	27554-26-3	-	mg/kg	50	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	-	mg/kg	50	ND
邻苯二甲酸二异戊酯 (DIPP)	605-50-5	-	mg/kg	50	ND
邻苯二甲酸正戊基异戊基酯 (nPIPP)	776297-69-9	-	mg/kg	50	ND
邻苯二甲酸二(C6-8支链)烷基酯(富C7) (DIHP)	71888-89-6	-	mg/kg	50	ND
邻苯二甲酸二(C7-11支链与直链)烷基(醇)酯 (DHNUP)	68515-42-4	-	mg/kg	50	ND
邻苯二甲酸二(支链与直链)戊基酯 (DPP)	84777-06-0	-	mg/kg	50	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	-	mg/kg	50	ND
邻苯二甲酸二异己酯 (DIHP)	71850-09-4	-	mg/kg	50	ND
1,2-苯二甲酸, 二(C6-10)烷基酯 / 1,2-苯二甲酸, 混合二己二辛二癸酯, 其中邻苯二甲酸二己酯含量≥0.3%	68515-51-5,	-	mg/kg	50	ND
	68648-93-1				
邻苯二甲酸酯总和		100	mg/kg	-	ND
评论					符合

备注:

(1) TPCH 将邻苯二甲酸酯定义为一类化学物质, 但官方并没有给出邻苯二甲酸酯的清单。结论是根据与



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客户商定检测的26种邻苯二甲酸酯物质得出的。

美国包装材料法案中规定的有害物质 (TPCH - 包装材料中有害物质) - 全氟和多氟烷基化合物 (PFAS)含量

检测方法: 参考CEN/TS 15968:2010 和 SGS内部方法(QDCH-TOP149-O), 采用LC-MS-MS和GC-MS进行分析。

检测项目	CAS NO.	限值	单位	MDL	001
全氟丁酸(PFBA)	375-22-4	★	mg/kg	0.01	ND
全氟戊酸(PFPA)	2706-90-3	★	mg/kg	0.01	ND
全氟己酸(PFHxA)	307-24-4	★	mg/kg	0.01	ND
7H-十二氟庚酸(HPFHpA)	1546-95-8	★	mg/kg	0.01	ND
全氟丁磺酸(PFBS)	375-73-5	★	mg/kg	0.01	ND
全氟丁基磺酸钾 (PFBS-K)**	29420-49-3	★	mg/kg	0.01	ND
全氟庚酸(PFHpA)	375-85-9	★	mg/kg	0.01	ND
1H,1H,2H,2H-全氟辛磺酸 (H ₄ PFOS 6:2)	27619-97-2	★	mg/kg	0.01	ND
全氟辛酸 (PFOA)	335-67-1	★	mg/kg	0.01	ND
全氟辛酸铵 (APFO)**	3825-26-1	★	mg/kg	0.01	ND
全氟辛酸钠 (PFOA-Na)**	335-95-5	★	mg/kg	0.01	ND
全氟辛酸钾 (PFOA-K)**	2395-00-8	★	mg/kg	0.01	ND
全氟辛酸银 (PFOA-Ag)**	335-93-3	★	mg/kg	0.01	ND
全氟辛氟 (PFOA-F)**	335-66-0	★	mg/kg	0.01	ND
四丁基磷2H,2H-全氟癸酸酯 (H ₂ PFDA)	882489-14-7	★	mg/kg	0.01	ND
全氟己基磺酸(PFHxS)	355-46-4	★	mg/kg	0.01	ND
全氟己基磺酸钠 (PFHxS-Na)**	82382-12-5	★	mg/kg	0.01	ND
全氟己基磺酸钾 (PFHxS-K)**	3871-99-6	★	mg/kg	0.01	ND
全氟壬酸(PFNA)	375-95-1	★	mg/kg	0.01	ND
全氟壬酸钠 (PFNA-Na)**	21049-39-8	★	mg/kg	0.01	ND
全氟壬酸铵 (APFN)**	4149-60-4	★	mg/kg	0.01	ND
全氟-3,7-二甲基辛酸(PF-3,7-DMOA)	172155-07-6	★	mg/kg	0.01	ND
全氟庚基磺酸(PFHpS)	375-92-8	★	mg/kg	0.01	ND
全氟庚基磺酸钠 (PFHpS-Na) **	68555-66-8	★	mg/kg	0.01	ND
全氟癸酸(PFDA)	335-76-2	★	mg/kg	0.01	ND
全氟癸酸钠 (PFDA-Na)**	3830-45-3	★	mg/kg	0.01	ND
全氟癸酸氨 (APFDA)**	3108-42-7	★	mg/kg	0.01	ND
2H,2H,3H,3H-全氟癸酸(H ₄ PFUnA)	34598-33-9	★	mg/kg	0.01	ND
全氟辛烷磺酸(PFOS)	1763-23-1	★	mg/kg	0.01	ND
全氟辛基磺酰胺(PFOSA)	754-91-6	★	mg/kg	0.01	ND
N-甲基全氟辛烷磺酰胺(MeFOSA)	31506-32-8	★	mg/kg	0.01	ND



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检测项目	CAS NO.	限值	单位	MDL	001
N-甲基全氟辛烷磺酰胺(MeFOSA)	31506-32-8	★	mg/kg	0.01	ND
N-乙基全氟辛烷磺酰胺(EtFOSA)	4151-50-2	★	mg/kg	0.01	ND
2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)	24448-09-7	★	mg/kg	0.01	ND
2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE)	1691-99-2	★	mg/kg	0.01	ND
全氟辛基磺酰氟 (POSF)**	307-35-7	★	mg/kg	0.01	ND
全氟辛基磺酸钾(PFOS-K)**	2795-39-3	★	mg/kg	0.01	ND
全氟辛基磺酸铵(PFOS-NH ₄)**	29081-56-9	★	mg/kg	0.01	ND
全氟辛基磺酸二癸二甲基铵 (PFOS-DDA) **	251099-16-8	★	mg/kg	0.01	ND
全氟辛基磺酸二乙醇铵 (PFOS-NH(OH) ₂)**	70225-14-8	★	mg/kg	0.01	ND
全氟辛基磺酸锂 (PFOS-Li)**	29457-72-5	★	mg/kg	0.01	ND
全氟辛基磺酸四乙基铵 (PFOS-N(C ₂ H ₅) ₄)**	56773-42-3	★	mg/kg	0.01	ND
全氟十一烷酸 (PFUdA)	2058-94-8	★	mg/kg	0.01	ND
全氟十二烷酸(PFDoA)	307-55-1	★	mg/kg	0.01	ND
全氟癸烷磺酸(PFDS)	335-77-3/ 126105-34-8	★	mg/kg	0.01	ND
全氟癸烷磺酸钠 (PFDS-Na)**	2806-15-7	★	mg/kg	0.01	ND
全氟癸烷磺酸钾 (PFDS-K)**	2806-16-8	★	mg/kg	0.01	ND
全氟癸基磺酸铵 (PFDS-NH ₄)**	67906-42-7	★	mg/kg	0.01	ND
全氟十三烷酸 (PFTra)	72629-94-8	★	mg/kg	0.01	ND
全氟十四烷酸 (PFTeA)	376-06-7	★	mg/kg	0.01	ND
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS)	39108-34-4	★	mg/kg	0.01	ND
全氟辛酸甲酯 (Me-PFOA)	376-27-2	★	mg/kg	0.1	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	★	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)	678-39-7	★	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA)	27905-45-9	★	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯 (8:2 FTMA)	1996-88-9	★	mg/kg	0.1	ND
全氟辛基磺烷 (PFOI)	507-63-1	★	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-己醇 (4:2 FTOH)	2043-47-2	★	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-辛醇 (6:2 FTOH)	647-42-7	★	mg/kg	0.1	ND
1H,1H,2H,2H-全氟辛基丙烯酸酯 (6:2 FTA)	17527-29-6	★	mg/kg	0.1	ND
1H,1H,2H,2H-全氟十二烷基丙烯酸酯(10:2 FTA)	17741-60-5	★	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-十二醇 (10:2 FTOH)	865-86-1	★	mg/kg	0.1	ND

结论

符合

备注:

(1) ★ = 禁止使用

(2) ** 检测结果是由选定的标记物的结果并基于最坏的情况计算得出。



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(3) TPCH 将PFASs定义为一类化学物质,但官方并没有给出PFASs的清单,结论是应客户需求根据所检测的62种PFASs物质含量得出的。

(4) 这项检测由SGS青岛化学实验室操作。

除非另有说明,参照ILAC-G8:09/2019,使用简单接受($w=0$)的二元判定规则进行符合性判定。

除非另有说明,此报告结果仅对检测的样品负责。本报告未经本公司书面许可,不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。

样品照片:



此照片仅限于随SGS正本报告使用

*** 报告完 ***