

## 测试报告

No. SHAEC1608872306

日期: 2016年05月06日 第1页,共5页

张家港市科元高分子材料有限公司  
张家港市金港镇德积天霸路

以下测试之样品是由申请者所提供及确认: 热塑性弹性体

SGS工作编号: SP16-015106 - SUZ  
型号: TPU 40-90  
样品接收日期: 2016年05月03日  
测试周期: 2016年05月03日 - 2016年05月06日  
测试要求: 根据客户要求测试  
测试方法: 请参见下一页  
测试结果: 请参见下一页

通标标准技术服务(上海)有限公司  
授权签名



Marry Ma 马广媛  
批准签署人

本报告是编号为SHAEC1608872305报告的中文版本。



SGS-CSTC (Shanghai) Technical Services (Shanghai) Co., Ltd.  
Testing Center-Chenmiao Laboratory

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测试结果:

### 测试样品描述:

样品编号	SGS样品ID	描述
SN1	SHA16-088723.003	半透明颗粒

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

### 多环芳香烃(PAHs)

测试方法: 参考AfPS GS 2014:01 PAK方法测试, 采用 GC-MS进行分析.

测试项目	单位	MDL	003
苯并(a)芘 (BaP)	mg/kg	0.1	ND
苯并(e)芘 (BeP)	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	mg/kg	0.1	ND
屈 (CHR)	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	mg/kg	0.1	ND
苯并(g,h,i)芘(二萘嵌苯) (BPE)	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	mg/kg	0.1	ND
萘烯(ANY)	mg/kg	0.1	ND
萘(萘嵌戊烷) (ANA)	mg/kg	0.1	ND
芴 (FLU)	mg/kg	0.1	ND
菲 (PHE)	mg/kg	0.1	ND
芘 (PYR)	mg/kg	0.1	ND
蒽 (ANT)	mg/kg	0.1	ND
荧蒽 (FLT)	mg/kg	0.1	ND
7项多环芳香烃总和[萘烯(ANY),萘(萘嵌戊烷) (ANA),芴 (FLU),菲 (PHE),芘 (PYR),蒽 (ANT),荧蒽 (FLT)]	mg/kg	-	ND
萘 (NAP)	mg/kg	0.1	ND
18项多环芳香烃总和	mg/kg	-	ND



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**AFPS(德国产品安全委员会):GS认证对多环芳香烃的要求**

参数	1类		2类		3类	
	设计意图为放入口中的材料或者玩具上与皮肤接触的材料(接触时间大于30秒)		未在1类规定中涵盖的材料,且可能与皮肤接触时间大于30秒的材料(长时间接触皮肤)或频繁接触皮肤		未在1和2类规定中涵盖的材料,且可能与皮肤接触的少于30秒的材料(短期接触皮肤)	
		2009/48/EC中适用的玩具	产品安全法涉及的其他产品	2009/48/EC中适用的玩具	产品安全法涉及的其他产品	
苯并(a)芘 (BaP) mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
苯并(e)芘 (BeP) mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
苯并(a)蒽 (BaA) mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
苯并(b)荧蒽 (BbF) mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
苯并(j)荧蒽 (BjF) mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
苯并(k)荧蒽 mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
屈 (CHR) mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
二苯并(a,h)蒽 (DBA) mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
苯并(g,h,i)花(二苯嵌苯) (BPE)n mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
蒽(1,2,3-c,d)芘 (IPY) mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
萘烯(ANY), 萘(萘嵌戊烷) (ANA), 苊 (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)之和 mg/kg	<1 (总和)	<5 (总和)	<10 (总和)	<20 (总和)	<50 (总和)	
萘 (NAP) mg/kg	<1	<2		<10		
18 PAH之和	<1	<5	<10	<20	<50	



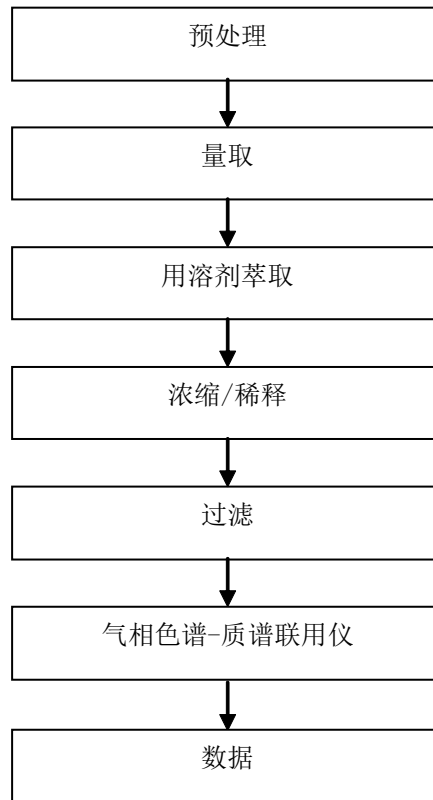
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## PAHs 测试流程图

- 1) 分析人员: 段莉莎
- 2) 项目负责人: 马永存



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