

检 测 报 包 TEST REPORT

编号/No.: SH1804000027C02

报告日期/Report date: 2018/04/09

申请单位 :	罗孚橡胶(江苏)有限公司
Applicant	Rolf Rubber(Jiangsu)CO.,LTD
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Address	Industrial Park Road nine No.33

以下检测样品由申请人提供及确认:

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

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样品名称/Sample Name	÷	EPDM 三元乙丙混炼胶
规 格/Specifications	:	EPDM
接收日期/ Receiving Date	R	2018/04/03
检测周期/Testing Period	2	2018/04/03-2018/04/09
检测要求/Test Requested	:	参见下一页/Please refer to next page(s).
检测方法/Test Method	ć	参见下一页/Please refer to next page(s).
检测结果/Test Results	:	参见下一页/Please refer to next page(s).
结 论/Conclusion	R	申请人所提供样品的检测结果符合欧盟 RoHS 修订指令(EU)2015/863(RoHS 2.0)
0 0 0	~	的要求。/Based on the analysis on the submitted sample, the results do comply with

the requirement of RoHS Directive (EU)2015/863(RoHS 2.0).

批准 **唐**俞山峰 Jeffery Chou Approved by

审核 胡汉青 Reviewed by Salvia Hu

编制 顾晓敏 Redact by Xiaomin Gu

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<u>检测结果/TEST RESULTS:</u>

RoHS2.0

检测项目 Test Items	检测方法 Methods	单位 Unit	方法 检测限 MDL	检测结果 Results	法规限值* Limited Value
铅/Pb			2	N.D.	1000
镉/Cd	M1	mg/kg	2	N.D.	100
汞/Hg	M2		2	N.D.	1000
六价铬/Cr (VI)	M3a	3	SP .	Negative	- F.
一溴联苯/Monobromobiphenyl (MonoBB)	6 1		5	N.D.	-
二溴联苯/Dibromobiphenyl (DiBB)	53	350	5	N.D.	- A
三溴联苯/Tribromobiphenyl (TriBB)	~ ~ ·	. × ,	5	N.D.	. .
四溴联苯/Tetrabromobiphenyl (TetraBB)	12.5	2 12	5	N.D.	2.42
五溴联苯/Pentabromobiphenyl (PentaBB)		\sim	5	N.D.	
六溴联苯/Hexabromobiphenyl (HexaBB)	12 1	5 19	5	N.D.	2 - 42
七溴联苯/Heptabromobiphenyl (HeptaBB)	0.0	0	5	N.D.	0
八溴联苯/Octabromobiphenyl (OctaBB)	19 1	5,5	5	N.D.	5 75
九溴联苯/Nonabromobiphenyl (NonaBB)	0.0	5.	5	N.D.	$\overline{\mathcal{O}}$
十溴联苯/Decabromobiphenyl (DecaBB)	15 1	5 15	5	N.D.	5 -5
上述多溴联苯总和/Total PBBs sum of above	S MA	S	27	N.D.	1000
一溴二苯醚/Monobromodiphenyl ether (MonoBDE)	M4	mg/kg	5	N.D.	6 – 6
二溴二苯醚/Dibromodiphenyl ether (DiBDE)	55	S	5	N.D.	- F.
三溴二苯醚/Tribromodiphenyl ether (TriBDE)	6		5	N.D.	
四溴二苯醚/Tetrabromodiphenyl ether (TetraBDE)	53	150	5	N.D.	2 42
五溴二苯醚/Pentabromodiphenyl ether (PentaBDE)	~ ~ ~	×.	5	N.D.	<u> </u>
六溴二苯醚/Hexabromodiphenyl ether (HexaBDE)	12 1	2 12	5	N.D.	2.42
七溴二苯醚/Heptabromodiphenyl ether (HeptaBDE)		0	5	N.D.	\sim
八溴二苯醚/Octabromodiphenyl ether (OctaBDE)	12 1	5 19	5	N.D.	5 - 5
九溴二苯醚/Nonabromodiphenyl ether (NonaBDE)	0.0	0	5	N.D.	2
十溴二苯醚/Decabromodiphenyl ether (DecaBDE)	15 1	5 15	5	N.D.	5 - 75
上述多溴二苯醚总和/Total PBDEs sum of above	0 0	S	0	N.D.	1000

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编号 No.	检测项目 Test Items	检测方法 Methods	方法检测限 MDL (mg/kg)	检测结果 Results (mg/kg)	法规限值* Limited Value (mg/kg)
7	邻苯二甲酸二丁酯/Dibutyl Phthalate (DBP)	2	50	N.D.	1000
8	邻苯二甲酸丁基苄基酯/Benzylbutyl Phthalate (BBP)	0	50	N.D.	1000
9	邻苯二甲酸二(2-乙基)己酯 /Di-(2-ethylhexyl)Phthalate (DEHP)	M5	50	N.D.	1000
10	邻苯二甲酸二异丁酯/Diisobutyl phthalate(DIBP)		50	N.D.	1000

注意/Remark:*报告中述及的法规限值根据是欧盟 RoHS 修订指令(EU)2015/863(RoHS 2.0)的要求。/The Limited value is based on the RoHS Directive (EU)2015/863(RoHS 2.0).

备注/Note: 1)

- "---"= 未明确规定/Not Regulated.
- 2) N.D. = 未检出, 小于方法检测限/Not detected, less than MDL.
- 3) M1: 参考 IEC 62321-5: 2013, 采用电感耦合等离子体发射光谱仪进行测定。 With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.
- M2:参考 IEC 62321-4: 2013, 采用电感耦合等离子体发射光谱仪进行测定。
 With reference to IEC 62321-4: 2013, analysis was performed by ICP-OES.
- M3a: 参考 IEC 62321-7-1: 2015, 采用紫外-可见分光光度计比色法进行测定。
 With reference to IEC 62321-7-1: 2015, analysis was performed by UV-Vis Colorimetric Determination.
- 6) M4: 参考 IEC 62321-6: 2015, 采用气相色谱质谱联用仪进行测定。 With reference to IEC 62321-6: 2015, analysis was performed by GC-MS.
-) M5: 参考 IEC 62321-8: 2017,采用气相色谱一质谱联用仪进行分析。
- With reference to IEC 62321-8: 2017, analysis was performed by GC-MS. 8) 本报告所有内容以中文为准。
 - All content in this report is dominated by Chinese.

检测部位描述/TEST PART DESCRIPTION: 黑色橡胶/Black rubber



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检测流程图/FLOW CHART

1. Pb、Hg、Cd 检测/Test for Pb, Hg, Cd Content



样品成分/Sample Material	消化酸/Digestion Acid	-	-	-		
玻璃/Glass	HNO ₃ /HF	2	2	2		
塑料/Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl	\sim	\sim	0		
其它/Others	加入其它的酸消解/Any acid to total digestion.					

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检 测 报 **큰** TEST REPORT

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2. 六价铬 Cr(VI)检测/Test for Chromium(VI)Content

取足够样品于装有适量沸水烧杯中 /Make enough sample to glass beaker contained enough boiling water. 将烧杯置于电热板继续煮 沸 10 分钟/Place the beaker to hot plate, Continue to boil the water for 10 minutes

取下烧杯,拿出样品并冷却 至室温/Remove the beaker,take out sample and cool it to room temperature.

取 25ml 混合液于另一烧杯中, 向其 中一个加测试液 1ml。有红色表明六 价铬存在。用分光光度计进行比色测 定。 / Get 25ml mixture to another beaker, and add 1ml test liquid 1ml to one of them. If red color appears, it is shown there is hexavalent chromium. Perform spectrophotometer to do colorimetric determination.

向烧杯中加 1ml 正磷酸溶 液,混匀 / Add 1ml phosphoric acid solution to the beaker and mix it up. temperature. 加水至 50ml,如有乳状或 沉淀,过滤/Add water to 50ml; if there is emulsion or sedimentation, filtrate it.

3. 多溴联苯&多溴二苯醚和邻苯二甲酸盐检测/Test for PBBs&PBDEs and Phthalates Content

称样并将其置于球形 瓶中/Weigh sample in a spherical bottle.

GC-MS 仪器分析

/Analyze by GC-MS.



用有机溶剂定容/Make up with organic solvent.

浓缩萃取液 /Concentrate extracted solution.

将萃取液转移至容量 瓶中/Transfer the extract into a volumetric flask.

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样品照片/SAMPLE PHOTO



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