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TEST REPORT

Report No:AR-20-SV-022472-02Customer:NBH Engineering & Industrial Sdn BhdDate of Issue:14/07/2020



Batch No: EUMYBM-00059187 Sample No: 138-2020-06005141

To: NBH Engineering & Industrial Sdn Bhd NO 6, JALAN MJ 16, LAKE 6 INDUSTRIAL PARK, 47100 PUCHONG SELANGOR MALAYSIA

Attn: Mr.B H Nyin

Date Sample Received: Date of Testing: 29/06/2020 30/06/2020 to 06/07/2020

The following sample was identified by the customer as :

PRODUCT: NEOPRENE TYPE: SHEET

Objective (s):

Determination of Cadmium (Cd), Hexavalent Chromium (Cr6+), Lead (Pb), Mercury (Hg), Phthalates, Polybrominated Biphenyl (PBBs), Polybrominated Diphenyl Ether (PBDEs) with RoHS Directive 2011/65/EU and (EU) 2015/863 (amendment in Annex II)

Conclusion:

Test(s) Required	Compliance with Objective(s)
Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium VI, Monobromobiphenyl, Dibromo biphenyls, Tribromo biphenyls, Tetrabromo biphenyls, Pentabromo biphenyls, Hexabromo biphenyls, Heptabromobiphenyl, Octabromo biphenyls, Nonabromo biphenyls, Decabromo biphenyls, Sum Polybrominated Biphenyles (PBB), Monobromodiphenyl ether, Dibromodiphenylether, Tribromo diphenyl ethers, Tetrabromo diphenyl ethers, Pentabromodiphenyl ether, Hexabromo diphenyl ethers, Heptabromo diphenyl ethers, Octabromo diphenyl ethers, Nonabromo diphenyl ethers, Decabromo diphenyl ethers, Sum Polybrominated Diphenyl Ether (PBDE), Benzyl butyl phthalate (BBP), Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate (DBP), Di-isobutyl phthalate (DiBP)	Comply

Test Result(s):

Analysis	Industrial Products Analysis	Unit	Result	LOQ	Test Method	Specification
SVK51	Cadmium (Cd)	mg/kg	1.0	1	IEC 62321-5	≤100mg/kg
SVL03	Lead (Pb)	mg/kg	23	10	IEC 62321-5	≤1000mg/kg
SVK82	Mercury (Hg)	mg/kg	ND(<loq)< td=""><td>5</td><td>IEC 62321-4</td><td>≤1000mg/kg</td></loq)<>	5	IEC 62321-4	≤1000mg/kg
SVV1M	Hexavalent Chromium (Cr6+)	mg/kg	ND(<loq)< td=""><td>20</td><td>IEC 62321-7-2</td><td>≤1000mg/kg</td></loq)<>	20	IEC 62321-7-2	≤1000mg/kg
SVK16	Polybrominated Biphenyl (PBBs)				IEC 62321-6	
	Monobromobiphenyl	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Dibromo biphenyls	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Tribromo biphenyls	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Tetrabromo biphenyls	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Pentabromo biphenyls	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Hexabromo biphenyls	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Heptabromobiphenyl	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Octabromo biphenyls	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Nonabromo biphenyls	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Decabromo biphenyls	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Sum Polybrominated Biphenyles (PBB)	mg/kg	ND(<loq)< td=""><td>-</td><td></td><td>≤1000mg/kg</td></loq)<>	-		≤1000mg/kg

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Sample No: 138-2020-06005141

Analysis	Industrial Products Analysis	Unit	Result	LOQ	Test Method	Specification
SVK17	Polybrominated Diphenyl Ether (PBDEs)				IEC 62321-6	
	Monobromodiphenyl ether	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Dibromodiphenylether	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Tribromo diphenyl ethers	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Tetrabromo diphenyl ethers	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Pentabromodiphenyl ether	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Hexabromo diphenyl ethers	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Heptabromo diphenyl ethers	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Octabromo diphenyl ethers	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Nonabromo diphenyl ethers	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Decabromo diphenyl ethers	mg/kg	ND(<loq)< td=""><td>20</td><td></td><td>Refer Note 2</td></loq)<>	20		Refer Note 2
	Sum Polybrominated Diphenyl Ether (PBDE)	mg/kg	ND(<loq)< td=""><td>-</td><td></td><td>≤1000mg/kg</td></loq)<>	-		≤1000mg/kg
SVV1Q	Phthalates				IEC 62321-8	
	Benzyl butyl phthalate (BBP)	% (w/w)	ND(<loq)< td=""><td>0.02</td><td></td><td>≤0.1%</td></loq)<>	0.02		≤0.1%
	Bis(2-ethylhexyl)phthalate (DEHP)	% (w/w)	ND(<loq)< td=""><td>0.02</td><td></td><td>≤0.1%</td></loq)<>	0.02		≤0.1%
	Dibutyl phthalate (DBP)	% (w/w)	ND(<loq)< td=""><td>0.02</td><td></td><td>≤0.1%</td></loq)<>	0.02		≤0.1%
	Di-isobutyl phthalate (DiBP)	% (w/w)	ND(<loq)< td=""><td>0.02</td><td></td><td>≤0.1%</td></loq)<>	0.02		≤0.1%

Specification Note

1. RoHS Directive 2011/65/EU and (EU) 2015/863 (amendment in Annex II)

2. Based on sum amount of PBB/PBDE limit, which is ≤1000mg/kg

Remark

1. The test portion was totally dissolved for cadmium, lead & mercury test by using pre-conditioning method as mentioned above.

2. IEC 62321 flowchart can be obtained from https://cdnmedia.eurofins.com/apac/media/601319/efctm001issue01.pdf

3. The test portion was ashed before the pre-conditioning method for Cadmium & Lead test as mentioned above.

Version Remark(s):

1. Analytical Report AR-20-SV-022472-02 issued on 14/07/2020 will supersede previous version of report(s). Upon receipt of this revised copy, all earlier version of report(s) will be invalid immediately.

This 3 page(s) of report and its attachment(s), if relevant, has/have been validated by

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EXPLANATORY NOTE

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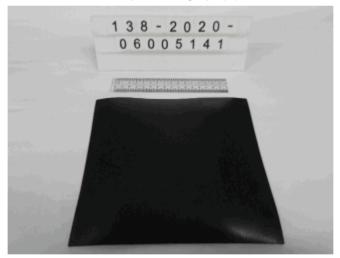
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Sample Photograph(S)



- End of Report -