



Produkte  
 Products

<b>Prüfbericht - Nr.: 50002657 001</b> <i>Test Report No.:</i>		Seite 1 von 5 <i>Page 1 of 5</i>	
<b>Auftraggeber:</b> <i>Client:</i>		THAI POLYCARBONATE CO., LTD. No. 1, Padaeng Industrial Estate, Padaeng Road, Map-Ta-Phut, Rayong 21150	
<b>Gegenstand der Prüfung:</b> <i>Test item:</i>		POLYCARBONATE RESIN	
<b>Bezeichnung:</b> <i>Identification:</i>	N/A	<b>Serien-Nr.:</b> <i>Serial No.:</i>	N/A
<b>Wareneingangs-Nr.:</b> <i>Receipt No.:</i>	A000032748-2	<b>Eingangsdatum:</b> <i>Date of receipt:</i>	19 December 2013
<b>Prüfört:</b> <i>Testing location:</i>	TÜV Rheinland Thailand Ltd. Global Technology Assessment Center Bangkok (GTAC BKK) Ladkrabang Industrial Estate 123/1, Floor 1-2 Soi Chalongsung 31, Lamplatew, Ladkrabang, Bangkok 10520 Thailand		
<b>Prüfgrundlage:</b> <i>Test specification:</i>	Restriction of the Use of Hazardous Substances Directive (RoHS), 2011/65/EU (recast)		
<b>Prüfergebnis:</b> <i>Test Result:</i>	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>		
<b>Prüflaboratorium:</b> <i>Testing Laboratory:</i>	TÜV Rheinland Thailand Ltd.		
<b>geprüft/ tested by:</b>		<b>kontrolliert/ reviewed by:</b>	
 Rangron Tassanapayak / Chemist		 Wilawan Sriphrom / Softlines Manager	
3 January 2014 <i>Datum</i> <i>Date</i>	Name/Stellung <i>Name/Position</i>	3 January 2014 <i>Datum</i> <i>Date</i>	Name/Stellung <i>Name/Position</i>
<i>Unterschrift</i> <i>Signature</i>		<i>Unterschrift</i> <i>Signature</i>	
<b>Sonstiges/ Other Aspects:</b>			
<b>Information provided by client:</b>			
Sample name: E-2000XX, E-2001XX, S-1000XX, S-2000XX, S-2001XX, S-3000XX, S-3001XX, H-2000XX, H-2001XX, H-3000XX, H3001XX, H-3300XX, H-3700XX			
Color : Natural & Ice			
<b>Other information:</b>			
Testing period: 19 December 2013 – 3 January 2014			
Delivery Condition: Apparent good			
<b>Abkürzungen:</b>	P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet	<b>Abbreviations:</b>	P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>			

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*Test Report No.:*

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**Material list**

Material No.	Material	Color	Location
M001	Polycarbonate resin	Natural & Ice	Refer to photo

**Total Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs Content**

Testing period: 19 December 2013 – 3 January 2014

Test method:

Total Lead, Cadmium, Mercury - Ref. to IEC 62321 Ed.,1, 2008, determine by ICP-MS  
Chromium VI - Ref. to IEC 62321 Ed.,1, 2008, determine by UV-Vis Spectrometer  
PBBs, PBDEs - Ref. to IEC 62321 Ed.,1, 2008, determine by GC-MS

Analyte (s):	Unit	MDL	Result	Maximum Permissible Limit
			M001	
Lead (Pb)	mg/kg	2	n.d.	1000
Cadmium (Cd)	mg/kg	2	n.d.	100
Mercury (Hg)	mg/kg	2	n.d.	1000
Hexavalent Chromium (Cr VI) by Alkaline Digestion/ Colorimetric Method	mg/kg	2	n.d.	1000
Bromobiphenyl	mg/kg	5	n.d.	--
Dibromobiphenyl	mg/kg	5	n.d.	--
Tribromobiphenyl	mg/kg	5	n.d.	--
Tetrabromobiphenyl	mg/kg	5	n.d.	--
Pentabromobiphenyl	mg/kg	5	n.d.	--
Hexabromobiphenyl	mg/kg	5	n.d.	--
Heptabromobiphenyl	mg/kg	5	n.d.	--
Octabromobiphenyl	mg/kg	5	n.d.	--
Nonabromobiphenyl	mg/kg	5	n.d.	--
Decabromobiphenyl	mg/kg	5	n.d.	--
Sum of PBBs	mg/kg	-	n.d.	1000
Bromodiphenylether	mg/kg	5	n.d.	--
Dibromodiphenyl ether	mg/kg	5	n.d.	--
Tribromodiphenyl ether	mg/kg	5	n.d.	--
Tetrabromodiphenyl ether	mg/kg	5	n.d.	--
Pentabromodiphenyl ether	mg/kg	5	n.d.	--
Hexabromodiphenyl ether	mg/kg	5	n.d.	--
Heptabromodiphenyl ether	mg/kg	5	n.d.	--
Octabromodiphenyl ether	mg/kg	5	n.d.	--
Nonabromodiphenyl ether	mg/kg	5	n.d.	--
Decabromodiphenyl ether	mg/kg	5	n.d.	--
Sum of PBDEs	mg/kg	-	n.d.	1000

Abbreviation: n.d. denotes Not Detected (<MDL)  
MDL denotes Method Detection Limit  
mg/kg denotes Milligram per kilogram  
PBBs denotes Total Polybrominated Biphenyl  
PBDEs denotes Total Polybrominated Diphenyl Ethers  
-- denotes Not regulated

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Sample photo:

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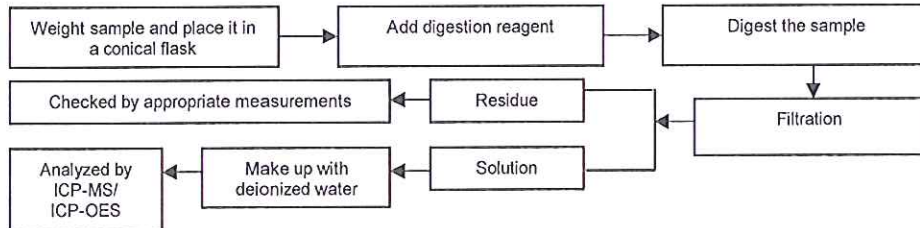
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**Flow chart of RoHS: Pb/ Cd Content**

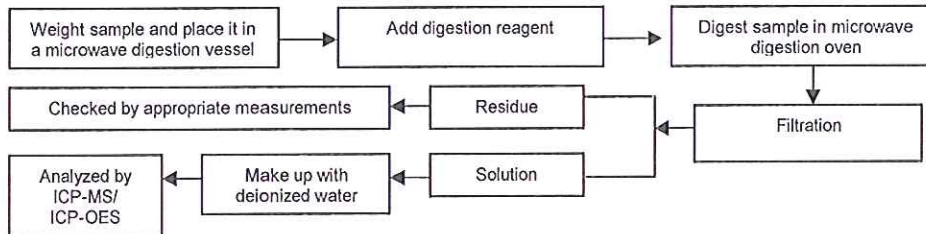
IEC 62321: 2008 Ed.1 Sec.9

- 1) The sample was totally dissolved by pre-conditioning method according to below flow chart
- 2) Name of the person who made measurement: Sirinthip Rungwichaprasoet
- 3) Name of the person in charge of measurement: Sirinthip Rungwichaprasoet


**Flow chart of RoHS: Hg Content**

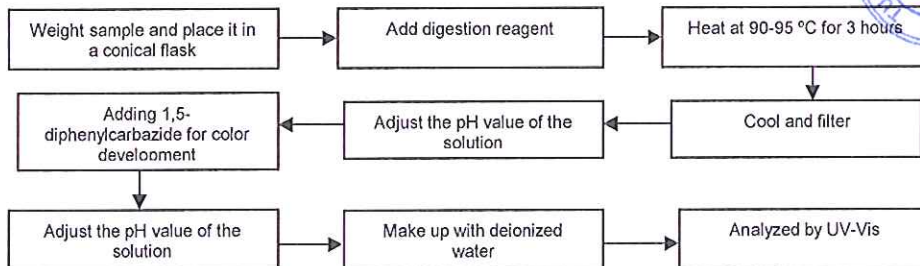
IEC 62321: 2008 Ed.1 Sec.7

- 1) The sample was totally dissolved by pre-conditioning method according to below flow chart
- 2) Name of the person who made measurement: Sirinthip Rungwichaprasoet
- 3) Name of the person in charge of measurement: Sirinthip Rungwichaprasoet


**Flow chart of RoHS:Cr (VI) Content**

IEC 62321: 2008 Ed.1 Annex C

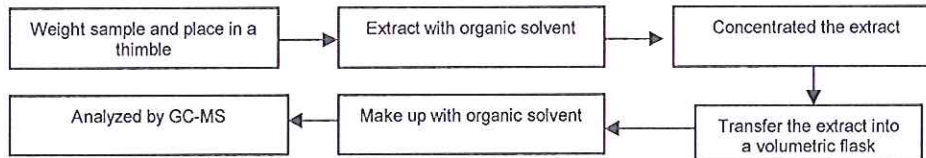
- 1) Name of the person who made measurement: Natthapong Jongrak
- 2) Name of the person in charge of measurement: Natthapong Jongrak



**Flow chart of RoHS:PBBs/ PBDEs Content**

IEC 62321: 2008 Ed.1 Annex A

- 1) Name of the person who made measurement: Rangrong Tassanapayak
- 2) Name of the person in charge of measurement: Rangrong Tassanapayak



- END-

