

TEST REPORT

Report No.: 2207090016

Page 1 of 8
Date: 25-07-2022

Issued To:

M/s SHANI CORPORATION LIMITED
D-42,E-42,43 GOPALPUR INDUSTRIAL AREA SEKANDRABAD
BULANDSHAHR - 203205

Sample Description : SCL UPVC PROFILE
Sample Received Date : 09-07-2022
Sample Drawn By : Client
Specification : --
Test Requested : Lead content, ANTI-FUNGAL, FLATTENING, FERRIC SULFATE-SULFURIC ACID (Method-A), Welding Bend (WBBT), RoHS 2.0 (Pb,Cd,Hg,Cr6,PBB,PBDE,Phthalates), WEATHERBILITY RESISTANCE, RESISTANCE TO IMPACT FALLING MASS
Test Method : Refer to Attached Pages.
Test Result : Refer to Attached Pages.

SAMPLE PICTURE



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I. Mechanical & Chemical

Test Performed on : 09-07-2022 to 20-07-2022

TEST	UNIT	RESULT	TEST METHOD
Lead Content	mg/kg	ND	IEC 62321-5:2013
Welding of Corners & T Joints			
Compression Weld Strength	N/mm ²	45.21	EN 514
Resistance to impact by falling mass (at 1500 mm height, weight 1kg and temp -10°C)	---	No cracks Observed	BS EN 12608
Bending and Flattening	---	No deviation Observed	BS EN 12608

Note: Not Detection (ND)

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II. Mechanical

WEATHERABILITY RESISTANCE TEST

Test Performed on : 09-07-2022 to 20-07-2022

Test Method: EN 513, DIN EN 12608-1

WEATHERABILITY RESISTANCE TEST

TEST CONDITIONS:

Duration	100 Hrs.
Light source	Xenon arc
Filter	Terrestrial daylight simulation
Rising Wavelength	300-400 nm
Irradiance	$60 \pm 2 \text{ W/m}^2$
Water Spray Cycle	6 min water spray, 114 min dry cycle
Black standard temperature	$63 \pm 3^\circ\text{C}$
White standard temperature	$45-50^\circ\text{C}$
Relativity Humidity	$55 \pm 5\%$

OBSERVATION:

Visual no colour discoloration, no shape deformation, no cracking and no abnormality observed.

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III. Chemical

ANTI-FUNGAL TEST

Test Performed on : 09-07-2022 to 20-07-2022

Test Method: ASTM G21

TEST	UNIT	RESULT	TEST METHOD
Fungal Resistance			
(a) Aspergillus niger (at 23°C for 7 days)	--	No fungal observed	ASTM G21
(b) Penicillium (at 23°C for 7 days)	--	No fungal observed	ASTM G21
(c) Chaetomium globosum (at 23°C for 7 days)	--	No fungal observed	ASTM G21
(d) Galiocladium virens (at 23°C for 7 days)	--	No fungal observed	ASTM G21
(e) Aureobasidium pullulans (at 23°C for 7 days)	--	No fungal observed	ASTM G21

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IV. Chemical

RoHS 2.0 (Pb,Cd,Hg,Cr6,PBB,PBDE,Phthalates)

Test Performed on : 09-07-2022 to 20-07-2022

TEST PARAMETER	TEST METHOD	MDL (mg/kg)	RESULTS (mg/kg)	LIMIT (mg/kg)
Lead (as Pb) (CAS No. 7439-92-1)	IEC 62321-5:2013,	1.0	24.0	Max 1000.0
Cadmium (as Cd) (CAS No. 7440-43-09)	IEC 62321-5:2013,	1.0	ND	Max 100.0
Mercury (as Hg) (CAS No. 7439-97-6)	IEC 62321-4:2013	2.0	ND	Max 1000.0
Hexa Chromium (as Cr+6) (CAS No. 10588-01-9)	IEC 62321-7-2:2017	1.0	ND	Max 1000.0
Sum of PBBs (Mono to Deca)				Max 1000.0
Monobromobiphenyl (CAS No. 92-52-4)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Dibromobiphenyl (CAS No. 92-86-4)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Tribromobiphenyl (CAS No. 59080-34-1)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Tetrabromobiphenyl (CAS No. 40088-45-7)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Pentabromobiphenyl (CAS No. 56307-79-0)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Hexabromobiphenyl (CAS No. 59080-40-9)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Heptabromobiphenyl (CAS No. 35194-78-6)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Octabromobiphenyl (CAS No. 6188-13-9)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Nonabromobiphenyl (CAS No. 27753-52-2)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Decabromobiphenyl (CAS No. 13654-09-6)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	

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TEST PARAMETER	TEST METHOD	MDL (mg/kg)	RESULTS (mg/kg)	LIMIT (mg/kg)
Sum of PBDEs (Mono to Deca)				Max 1000.0
Monobromodiphenyl ether (CAS No. 101-55-3)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Dibromodiphenyl ether (CAS No. 205047-7)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Tribromodiphenyl ether (CAS No. 49690-94-0)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Tetrabromodiphenyl ether (CAS No. 40088-47-9)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Pentabromodiphenyl ether (CAS No. 32534-81-9)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Hexabromodiphenyl ether (CAS No. 36483-60-0)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Heptabromodiphenyl ether (CAS No. 68928-80-3)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Octabromodiphenyl ether (CAS No. 32536-52-0)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Nonabromodiphenyl ether (CAS No. 63936-56-1)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Decabromodiphenyl ether (CAS No. 1163-19-5)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	

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TEST PARAMETER	TEST METHOD	MDL (mg/kg)	RESULTS (mg/kg)	LIMIT (mg/kg)
Phthalates				
Di-ethylhexylphthalate (DEHP) (CAS No. 117-81-7)	IEC 62321-8:2017 test performed by GC-MS	30.0	82.0	Max 1000.0
Benzylbutylphthalate (BBP) (CAS No. 85-68-7)	IEC 62321-8:2017 test performed by GC-MS	30.0	ND	Max 1000.0
Dibutylphthalate (DBP) (CAS No. 84-74-2)	IEC 62321-8:2017 test performed by GC-MS	30.0	ND	Max 1000.0
Di-isobutylphthalate (DIBP) (CAS No. 84-69-5)	IEC 62321-8:2017 test performed by GC-MS	30.0	66.0	Max 1000.0

Note:

- The maximum permissible limits are quoted from the European Parliament and Council Directive 2005/84/EC(amending Directive 2015/863 amending annex. II to Directive 2011/65/EU).
- MDL = Method detection limits
- N.D.= Not detected at the detection limits.
- mg/kg = ppm (parts per million); 0.1wt% = 1000ppm
- Lead content more than 85% in its alloys (Tin-Lead solder alloys) are exempted as per directives 2002/95/EC, Annexure article-7.

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V. Chemical

Resistance to Sulphuric acid

Test Performed on : 09-07-2022 to 25-07-2022

Test Parameter	Unit	Result	Test Method
Resistance to Sulphuric Acid (at 55°C for 14 days)	---	Visually no changes observed	IS 12235(P-7)

-----End of Report-----



Vishal Singh Tomar
ANALYST

Authorised Signatory

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