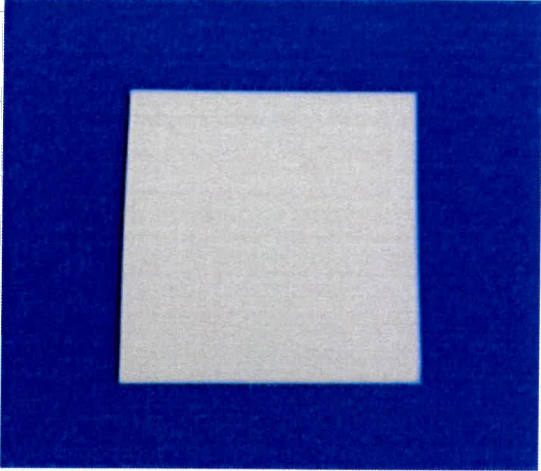


<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	<b>ULR-TC56882060000011F</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	166208840	Seite 1 von 3 Page 1 of 3
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	657388	<b>Auftragsdatum:</b> <i>Order date:</i>	2019-12-10	
<b>Auftraggeber:</b> <i>Client:</i>	Shingi Urja Pvt. Ltd., Bldg. No. 13, Gala No. 43, 1st Floor, Samhita Complex, Andheri Kurla Road, Andheri (East), Mumbai – 400072			
<b>Prüfgegenstand:</b> <i>Test item:</i>	Solar Backsheet			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	Armour PF350BS			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	Comparative tracking indices of solid insulating materials			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	IEC 60112:2003+A1:2009			
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	2019-12-11			
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	166208840-02			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2019-12-18			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	TÜV Rheinland (India) Pvt. Ltd. 27/B, 2nd Cross Road, Electronic City Phase I, Bangalore – 560100, India.			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (India) Pvt. Ltd. 27/B, 2nd Cross Road, Electronic City Phase I, Bangalore – 560100, India.			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	The test item passed the test specification(s).			
<b>geprüft von / tested by:</b>	<b>kontrolliert von / reviewed by:</b>			
2020-01-30	Sathish / Engineer	2020-01-30	Manu Kumar S B / Reviewer	
<i>Datum</i> <i>Date</i>	<i>Name / Stellung</i> <i>Name / Position</i>	<i>Unterschrift</i> <i>Signature</i>	<i>Datum</i> <i>Date</i>	<i>Name / Stellung</i> <i>Name / Position</i>
<b>Sonstiges/ Other Aspects:</b>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend 3 = satisfactory	4 = ausreichend 4 = sufficient
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory	4 = sufficient N/A = not applicable
5 = mangelhaft N/T = nicht getestet 5 = poor 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 only 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 test mark.</i>				

v04

IEC 60112:2003+A1:2009			
Clause	Requirement + Test	Result - Remark	Verdict

<b>IEC 60112 - Tracking test</b>			
Clause	Requirement – test	Result - Remark	Verdict
9	Determination of erosion		P
	Erosion depths	See table 1	P
11	Determination of comparative tracking index ( CTI)		P
11.2	Determination of the 100 drop point		N/A
	Using the basic procedure described in IEC 60112 clause 8, set the voltage at a selected level and make the test until at least 25s elapsed after the one hundredth drop has fallen or until previous failure occurs		N/A
11.3	Determination of the 50 drop point		P
	By inference from the 100 drop data, repeat the test procedure at an appropriate test voltage , using a new site/specimen and determine whether the specimen withstands the test for the period up to at least 25s after the 50th drop has fallen	CTI: 600V See table 1	P

IEC 60112:2003+A1:2009			
Clause	Requirement + Test	Result - Remark	Verdict

Table 1							
Part	Material	Material Thickness [mm]	Colour	Test solution A [No of drops]	Applied Voltage [V]	Erosion depth [mm]	Result
Solar backsheet	Armour PF350BS	>3	White	50 drops	600V	0.0	Pass
Solar backsheet	Armour PF350BS	>3	White	50 drops	600V	0.0	Pass
Solar backsheet	Armour PF350BS	>3	White	50 drops	600V	0.0	Pass
Solar backsheet	Armour PF350BS	>3	White	50 drops	600V	0.0	Pass
Solar backsheet	Armour PF350BS	>3	White	50 drops	600V	0.0	Pass

**Remark:**

1. Test solution A : Ammonium chloride
2. Sample thickness is 0.35mm , hence stacked 10 samples during testing to achieve thickness > 3mm
3. No erosion occurred during and after the test.

**Test Results:**

At 600V, all samples withstood the 50drops of solution A without flaming or tracking.

\*End Report\*