



Electroporcelains Division
Bengaluru – 560012, India

PS 901 02 0007

Rev No : 00

Purchase Specification
Group : Photovoltaic Module

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BACK SHEET – PET BASED SHEET

A) PARAMETERS:

- | | | |
|------|------------------------------|---|
| 1.0 | Item | : Laminated composite back sheet for photovoltaic module (3 layered structure with outerlayer fluoro-polymer, middle layer pet and inner layer of fluoropolymer / uv resistant polymer) |
| 2.0 | Application | : As back cover for lamination of pv module along with EVA |
| 3.0 | Width | : 985 ± 2 mm |
| 4.0 | Thickness | : 0.30 mm minimum |
| 5.0 | Colour | : White |
| 6.0 | Adhesion Strength (with EVA) | : ≥ 40N / 10mm |
| 7.0 | Tensile Strength | : MD 100 MPa
TD 115 MPa |
| 8.0 | Elongation @ Break | : MD 100 %
TD 90 % |
| 9.0 | Heat Shrinkage | : MD 1.50 %
TD 0.50 % |
| 10.0 | Moisture Barrier | : < 3 g/(m ² -day) |
| 11.0 | Dielectric Strength | : ≥ 20 kV |
| 12.0 | Partial Discharge | : ≥ 1000 VDC |

Prepared By: PK	Reviewed By: NAR	Approved By: CNP	Date of Issue
			13.08.2016



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B) PACKING CONDITIONS :

1. Material shall be packed in aluminium foil / polythene cover to avoid possible material degradation.
2. Roll length : not more than 100 linear metres
3. Each roll shall have manufacturer label containing manufacturer name, lot no., date of manufacture, date of expiry, width, quantity.
4. Outside carton/plywood box shall have BHEL PO number.
5. Each lot must be accompanied with a test certificate for conformance to the this specification.
6. Air side to be identified on the roll with printed letters.

C) INSPECTION AT BHEL:

- a. Visual Inspection, Dimensional & Properties evaluation
- b. Single Sampling Plan as per IS:10673-1983, Special Inspection Level S-4, AQL 1.0

NOTE :

1. Certificate for partial discharge test for permissible system voltage ≥ 1000 VDC as per IEC standards to be provided by the supplier along with the offer.
2. The backsheet shall be UL / TUV Certified.

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