



Electroporcelains Division
Bengaluru – 560012, India

PS 901 02 0003

Rev No : 00

Purchase Specification
Group : Photovoltaic Module

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EVA – ETHYLENE VINYL ACETATE SHEET

1.0 PHYSICAL CHARACTERISTICS

- 1.1. Material : Ethylene Vinyl Acetate
- 1.2. Dimensions : Width – 985 ± 2 m
Thickness – 0.45 to 0.50 mm
Length – in roll form of 100 linear meters each
- 1.3. Surface Type : Inside – Matt; Outside – Polished / Embossed
- 1.4. Tensile Strength : 18 ± 3 MPa
- 1.5. Water absorption : < 0.1 %
- 1.6. Thermal Conductivity : 0.27 W / m.K
- 1.7. Specific Heat : 2.8 J / g.K
- 1.8. Thermal Shrinkage : < 1 %
- 1.9. Adhesion to Back Sheet : > 70 N/cm
- 1.10. Adhesion to Glass : > 70 N /cm
- 1.11. Optical Transmittance : > 91 %
- 1.12. UV Cut Off wave length : 360 nm
- 1.13. Refractive Index : 1.48
- 1.14. Dielectric Strength : > 25 kV/mm
- 1.15. Volume Resistivity : 1×10^{15} minimum
- 1.16. Gel Content : > 80 %
- 1.17. Color : Transparent
- 1.18. Haze : < 7
- 1.19. Vinyl Acetate Content : 26 ~ 33 %

Prepared By: PK

Reviewed By: NAR

Approved By: CNP

Date of Issue

12.08.2016



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2.0 VISUAL CHARACTERISTICS :

- a. Appearance: Smooth surface, uniform thickness and shall have no discoloration.
- b. Shall be non-sticky at room temperature
- c. Shall have not any bubble and peeling


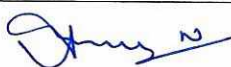

3.0 PACKING CONDITIONS

- a. EVA roll shall be packed in air-tight Aluminium foil / foam sheet to avoid possible material degradation.
- b. Each roll shall have manufacturers label containing
 - Manufacturers Name
 - Lot No
 - Date of Manufacture
 - Date of Expiry
 - Dimensions viz., Width and Quantity
- c. Final packing box shall have a label containing BHEL Purchase Order No. and Date
- d. Each lot must be accompanied with Test Certificate

4.0 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) The EVA shall be PID resistant, UV and weather stable
2) The EVA shall be UL / TUV Certified

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