



Electroprorcelains Divisions
Bengaluru – 560012, India

PS 901 02 0008

Rev No : 00



Purchase Specification
Group : Solar Photovoltaic Module

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ARC GLASS – 250W SPV MODULE

- 1.0 **ITEM** : AR (Anti Reflection) coated glass for PV module
- 2.0 **APPLICATION** : It is used in photovoltaic module (250W) for covering the cells during the lamination and for increased absorption of sunlight.
- 3.0 **TECHNICAL SPECIFICATION**
- 3.1 **Material** : Tempered Glass
- 3.2 **Coating** : AR coated on one side and textured on other side
- 3.3 **Visible light transmission** : $\geq 93.5\%$
- 3.4 **Dimensions are in mm** : Length = 1650 ± 1.0
: Width = 990 ± 1.0
: Thickness 3.2 ± 0.2
- 3.5 **Mechanical Strength** : 90MPa (Min.)
- 3.6 **Young's Modulus** : 70Gpa (Min.)
- 3.7 **Hardness** : 6 Mohs (Min.) / 470 Knoop (indenter load 500g)
- 3.8 **Bending** : $< 0.3\%$
- 3.9 **Density** : 2500 Kg/m³
- 3.10 All corners to be rounded and edges to be ground.
- 3.11 Glasses shall be free from visual defects.
- 4.0 **PACKING CONDITIONS**
- 4.1 Glasses shall be individually interleaved with paper sheets.
- 4.2 Glasses shall be tightly packed in a wooden pallet suitable for seaworthy and roadworthy packing to avoid transit damages. Glasses should be covered with polythene sheets to avoid moisture and water entry.
- 4.3 Each pallet shall be labelled with manufacturer's name, lot no., date of manufacture, size of glass, BHEL PO Number and Quantity.
- 5.0 **TEST CERTIFICATE:** Supplier shall provide test certificate for clause (3.1, 3.2, 3.3, and 3.4)
- 6.0 **INSPECTION AT BHEL :**
- a. Visual inspection , Dimensional and properties evaluation .
- b. Single sampling plan as per IS: 10673-1983, special inspection level S-4, AQL 1.0.

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