



Electroporcelains Division
Bengaluru – 560012, India

Purchase Specification
Group : Photovoltaic Module

PS 901 02 0002

Rev No : 00

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ARC GLASS – 4.0mm Thick

- 1.0 **ITEM** : AR (anti reflection) coated glass for PV module
- 2.0 **APPLICATION** : For photovoltaic modules
- 3.0 **TECHNICAL SPECIFICATIONS**
- 3.1 **MATERIAL** : Tempered
- 3.2 **TYPE** : AR coated on one side and textured on other side
- 3.3 **VISIBLE LIGHT TRANSMISSION** : $\geq 93.5 \%$
- 3.4 **DIMENSIONS**
- Length : 1960 ± 1 MM
Width : 980 ± 1 MM
Thickness : 4.0 ± 0.2 MM
- 3.5 **MECHANICAL STRENGTH** : 90 MPa min
- 3.6 **YOUNG MODULUS** : 70 GPa min
- 3.7 **HARDNESS** : 6 Mohs min
470 Knoop (indenter load 500g)
- 3.8 **BENDING** : $< 0.30 \%$
- 3.9 **DENSITY** : 2500 KG/M^3
- 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 crate shall be marked outside with manufacturer's name, lot no., date of manufacture, size of the glass, Gross & Nett Weight, BHEL PO number and quantity.
- 5.0 **TEST CERTIFICATE:** Supplier shall provide test certificate conforming the above parameters
- 6.0 **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

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