

Vishakha 1500 V PET Backsheet is a polyethylene terephthalate based weather stable with good mechanical strength back sheet. It can be used for all crystalline PV module manufacturing

| S.N | Properties | UOM | Test Method | Vishakha PET | |
|-----|-------------------------------------|-------|-------------|--------------|------|
| 1 | Thickness | µm | Micro meter | 370 ± 5 % | |
| 2 | Width | Mm | Scale | Up to 1250 | |
| 3 | Tensile Strength | MPa | ASTM D 882 | MD | >100 |
| | | | | TD | >100 |
| 4 | Elongation | % | ASTM D 882 | MD | ≥100 |
| | | | | TD | ≥100 |
| 5 | Thermal Shrinkage @ 150 °C / 30 min | % | ASTM D 1204 | MD | ≤1.5 |
| | | | | TD | ≤0.5 |
| 6 | Interlayer Adhesion | N/cm | ASTM D 903 | HPET-PET | ≥4 |
| | | | | PET- Primer | ≥4 |
| 7 | Adhesion with EVA | N/cm | ASTM D 903 | ≥75 | |
| 8 | Breakdown Voltage | Kv/mm | ASTM D 3755 | 162.35 | |
| 9 | Dielectric Strength | Kv/mm | ASTM D 149 | 38.23 | |
| 10 | Comparative Tracking Index | V | IEC 60112 | 600 | |
| 11 | Radiant Panel Test | - | ASTM E 162 | 55 | |
| 12 | RTI - Electrical | Deg C | UL 1703 | 140 | |
| 13 | RTI – Mechanical | Deg C | UL 1703 | 125 | |

| Construction of Vishakha 1500 V PET back sheet | | |
|--|-----------------------|---------------|
| Layer No | Particulars | Thickness (µ) |
| 1 | Air side layer – HPET | 50 |
| 2 | Adhesive | 10 |
| 3 | PET | 250 |
| 4 | Adhesive | 10 |
| 5 | Cell side – VishPrime | 50 |
| Total Thickness of Back sheet | | 370 |

UL recognised under File No: QIHE2.E487880



Storage Condition : To be stored in sealed packing at temperature < 30 °C & Humidity < 60 %
Shelf life : It is recommended to use within 12 months from the date of manufacture