

**KNACK ENERGY Pvt. Ltd.**

Empowering the future...

## **Solar Backsheet**

### **KNACK BS PVDF W15**

It is a PVDF based weather stable white backsheet suitable for 1500VDC system. It is designed uniquely with air side PVDF, center PET and cell side high bonding Knack specialized primer layer. It has excellent thermal dimension stability which provides wide processing window to users. It can be used for all crystalline PV module manufacturing. It offers high barrier to water vapour and excellent adhesion with encapsulants.



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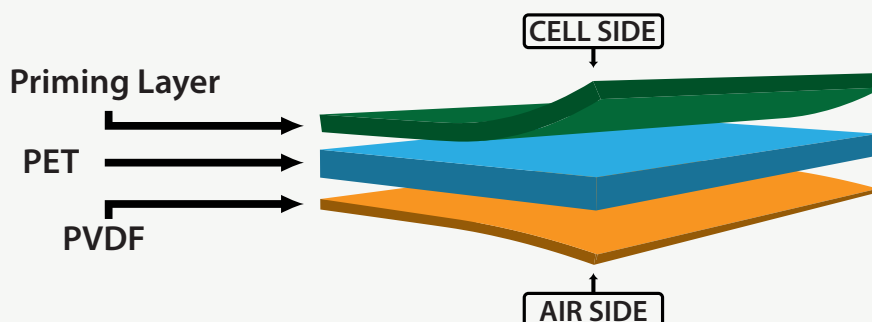
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Factory: Plot No. 31/A, Kamla Amrut Industrial Estate, Survey No. 252, Near Hitachi Johnson, Budasan, Ta:Kadi, Dist:Mehsana - 382715. Gujarat, India.

# KNACK BS PVDF W15

## PROPERTIES

| Properties                          | UOM                  | Test Method    | KNACK BS PVDF W15 |       |
|-------------------------------------|----------------------|----------------|-------------------|-------|
| Thickness                           | μm                   | Micrometer     | 360 ± 5%          |       |
| Width                               | mm                   | Scale          | Up to 1400        |       |
| GSM                                 | g/m <sup>2</sup>     | Weighing Scale | 480 ± 20          |       |
| Tensile Strength                    | MPa                  | ASTM D 882     | MD                | ≥ 100 |
|                                     |                      |                | TD                | ≥ 100 |
| Elongation                          | %                    | ASTM D 882     | MD                | ≥ 100 |
|                                     |                      |                | TD                | ≥ 100 |
| Thermal Shrinkage<br>@150 °C/30 Min | %                    | ASTM D 1204    | MD                | ≤ 1.5 |
|                                     |                      |                | TD                | ≤ 0.5 |
| Interlayer Adhesion                 | N/cm                 | ASTM D 903     | PVDF- PET         | ≥ 4   |
|                                     |                      |                | PET- Primer       | ≥ 4   |
| Adhesion With EVA                   | N/cm                 | ASTM D 903     | ≥ 75              |       |
| Dielectric Strength                 | kV/mm                | ASTM D 149     | ≥ 20              |       |
| CTI                                 | V                    | IEC 60112      | ≥ 600             |       |
| Distance through insulation         | μm                   | IEC 60112      | ≥ 300             |       |
| Reflectance                         | %                    | -              | ≥ 80              |       |
| WVTR                                | g/m <sup>2</sup> day | ASTM F 1249    | < 2               |       |



**Storage Condition:** To be stored in sealed packing at temperature < 35 °C & Humidity < 60 %  
**Shelf life:** It is recommended to use within 12 months from the date of manufacture