

**CF-PPS Technical Data Sheet(TDS)**

| MECHANICAL PROPERTIES     |                    |                            |                           |
|---------------------------|--------------------|----------------------------|---------------------------|
| Property                  | Method             | Value                      |                           |
|                           |                    | XY                         | Z                         |
| Young's Modulus           | ISO 527, GB/T 1040 | 8230±270 MPa               | 2850±160 MPa              |
| Tensile Strength          | ISO 527, GB/T 1040 | 87±5 MPa                   | 24±3 MPa                  |
| Breaking Elongation Rate  | ISO 527, GB/T 1040 | 1.2±0.4 %                  | 0.7±0.3 %                 |
| Bending Modulus           | ISO 178, GB/T 9341 | 7160±280 MPa               | 2460±190 MPa              |
| Bending Strength          | ISO 178, GB/T 9341 | 142±5 MPa                  | 36±4 MPa                  |
| Impact Strength           | ISO 179, GB/T 1043 | 27.8±2.3 kJ/m <sup>2</sup> | 2.8±0.4 kJ/m <sup>2</sup> |
| Impact Strength (Notched) | ISO 179, GB/T 1043 | 6.2±1.6 kJ/m <sup>2</sup>  | N/A                       |

| THERMAL PROPERTIES           |                    |                    |
|------------------------------|--------------------|--------------------|
| Property                     | Method             | Value              |
| Melt Index                   | 230° C, 2.16kg     | 11.48±1.23 g/10min |
| Melting Temperature          | DSC, 10° C/min     | 284° C             |
| Glass Transition Temperature | DSC, 10° C/min     | 100° C             |
| Crystallization Temperature  | DSC, 10° C/min     | 214° C             |
| Vicat Softening Temperature  | ISO 306, GB/T 1633 | 268° C             |
| Heat Deflection Temperature  | ISO 75, 1.8MPa     | 235° C             |
|                              | ISO 75, 0.45MPa    | 264° C             |

## OTHER PROPERTIES

| Property                        | Method        | Value         |
|---------------------------------|---------------|---------------|
| Density                         | ISO 1183      | 1.26g/ $cm^3$ |
| Saturated Water Absorption Rate | 25° C, 55% RH | 0.05%         |

Updated on May 11, 2026