

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 ²	2.8±0.4 kJ/m ²
Impact Strength (Notched)	ISO 179, GB/T 1043	6.2±1.6 kJ/m ²	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 February 28, 2025