

CF-PPA Technical Data Sheet(TDS)

MECHANICAL PROPERTIES			
Property	Method	Value	
		XY	Z
Young's Modulus	ISO 527, GB/T 1040	11800±670 MPa	4300±340 MPa
Tensile Strength	ISO 527, GB/T 1040	168±4 MPa	57±5 MPa
Breaking Elongation Rate	ISO 527, GB/T 1040	3.2±0.4 %	0.9±0.2 %
Bending Modulus	ISO 178, GB/T 9341	9860±480 MPa	3240±360 MPa
Bending Strength	ISO 178, GB/T 9341	208±6 MPa	63±4 MPa
Impact Strength	ISO 179, GB/T 1043	41.7±2.8 kJ/m ²	4.3±0.4 kJ/m ²
Impact Strength (Notched)	ISO 179, GB/T 1043	6.5±2.3 kJ/m ²	N/A

THERMAL PROPERTIES		
Property	Method	Value
Melt Index	230° C, 2.16kg	8.4±0.7 g/10min
Melting Temperature	DSC, 10° C/min	258° C
Glass Transition Temperature	DSC, 10° C/min	85° C
Crystallization Temperature	DSC, 10° C/min	178° C
Vicat Softening Temperature	ISO 306, GB/T 1633	232° C
Heat Deflection Temperature	ISO 75, 1.8MPa	196° C
	ISO 75, 0.45MPa	227° C

OTHER PROPERTIES

Property	Method	Value
Density	ISO 1183	1.25g/cm ³
Saturated Water Absorption Rate	25° C, 55% RH	1.30%

Updated on February 28, 2025