

CF-PA6 Technical Data Sheet(TDS)

MECHANICAL PROPERTIES			
Property	Method	Value	
		XY	Z
Young's Modulus	ISO 527, GB/T 1040	4430±310 MPa	2170±230 MPa
Tensile Strength	ISO 527, GB/T 1040	102±7 MPa	48±6 MPa
Breaking Elongation Rate	ISO 527, GB/T 1040	5.8±1.6 %	3.7±0.8 %
Bending Modulus	ISO 178, GB/T 9341	5460±280 MPa	2240±220 MPa
Bending Strength	ISO 178, GB/T 9341	151±8 MPa	80±7 MPa
Impact Strength	ISO 179, GB/T 1043	40.3±2.5 kJ/m ²	15.5±1.7 kJ/m ²
Impact Strength (Notched)	ISO 179, GB/T 1043	13.4±1.7 kJ/m ²	N/A

THERMAL PROPERTIES		
Property	Method	Value
Melting Temperature	DSC, 10° C/min	223° C
Glass Transition Temperature	DSC, 10° C/min	68° C
Crystallization Temperature	DSC, 10° C/min	185° C
Vicat Softening Temperature	ISO 306, GB/T 1633	212° C
Heat Deflection Temperature	ISO 75 1.8MPa	164° C
	ISO 75 0.45MPa	186° C

OTHERS PROPERTIES

Property	Method	Value
Density	ISO 1183	1.09g/cm ³
Melt Index	280° C, 2.16kg	6.8±0.6 g/10min
Saturated Water Absorption Rate	25° C, 55% RH	2.35%

Updated on February 28, 2025