

### CF-PLA Technical Data Sheet(TDS)

MECHANICAL PROPERTIES			
Property	Method	Value	
		XY	Z
Young's Modulus	ISO 527, GB/T 1040	2790±120 MPa	2160±90 MPa
Tensile Strength	ISO 527, GB/T 1040	38±4 MPa	26±2 MPa
Breaking Elongation Rate	ISO 527, GB/T 1040	8.4±3.2 %	3.6±0.7 %
Bending Modulus	ISO 178, GB/T 9341	3950±190 MPa	2260±180 MPa
Bending Strength	ISO 178, GB/T 9341	89±4 MPa	49±3 MPa
Impact Strength	ISO 179, GB/T 1043	23.2±3.7 kJ/m <sup>2</sup>	7.8±0.7 kJ/m <sup>2</sup>
Impact Strength (Notched)	ISO 179, GB/T 1043	7.6±2.6 kJ/m <sup>2</sup>	N/A

THERMAL PROPERTIES		
Property	Method	Value
Melt Index	210° C, 2.16kg	3.7±0.6 g/10min
Melting Temperature	DSC, 10° C/min	165° C
Glass Transition Temperature	DSC, 10° C/min	63° C
Vicat Softening Temperature	ISO 306, GB/T 1633	69° C
Heat Deflection Temperature	ISO 75, 1.8MPa	54° C
	ISO 75, 0.45MPa	55° C

## OTHER PROPERTIES

Property	Method	Value
Density	ISO 1183	1.22g/cm <sup>3</sup>
Saturated Water Absorption Rate	25° C, 55% RH	0.42%

Updated on February 28, 2025