

PC Technical Data Sheet(TDS)

Physical Properties	Methods	Value
Density	ISO 1183, GB/T1033	1.19 g/cm ³ at 21°C
Melt Index	260°C, 1.2Kg	6-8 g/10 min
Flame Retardancy V2	UL94	V2

Mechanical Properties	Methods	Value
Glass transition	DSC, 10°C/min	113°C
Decomposition Temperature	TGA, 20°C/min	>360°C
Vicat softening Temperature	ISO 306 GB/T 1633	116.9°C
Heat deflection Temperature	ISO 75 108 MPa	99.3°C
Heat deflection Temperature	ISO 75 0.45MPa	114.1°C

Property	Testing Method	Typical Value
Young's modulus (X-Y)	ISO 527, GB/T 1040	2048±66MPa
Young's modulus (Z)		1845± 35 MPA
Tensile Strength (X-Y)	ISO 527, GB/T 1040	59.7± 1.8 MPA
Tensile Strength (Z)		29.1± 4.1 MPA
Elongation at break (X-Y)	ISO 527, GB/T 1040	12.24 ± 1.44 %
Elongation at break (Z)		1.84 ± 0.14 %
Bending modulus (X-Y)	ISO 178, GB/T 9341	2044 ±58 MPA
Bending modulus (Z)		N/A
Bending Strength (X-Y)	ISO 178, GB/T 9341	94.1± 0.9 MPA
Bending Strength (Z)		N/A
Charpy impact strength (X-Y)	ISO 178, GB/T 9341	25.1±1.9kj/m ²
Charpy impact strength (Z)		N/A