



PC-ABS Polycarbonate

MATERIAL DATA SHEET

Material Data Sheet: PC-ABS

Property	Testing Method	Typical Value
Density (g/cm ³ at 21.5 °C)	ASTM D792 (ISO 1183, GB/T 1033)	1.18 - 1.20
Glass transition temperature (°C)	DSC, 10 °C/min	113
Softening temperature of filament (for 1.75 mm; °C)	Custom method	127 - 130
Melt index (g/10 min)	300 °C, 1.2 kg	23 - 26
Moisture content ¹ (%)	Thermogravimetric	≤ 0.1%
Odor	/	Almost odorless
Solubility	/	Insoluble in water

Property	Testing Method	Typical Value
Young's modulus (MPa)	ASTM D638 (ISO 527, GB/T 1040)	2048 ± 66
Tensile strength (MPa)	ASTM D638 (ISO527, GB/T 1040)	59.7 ± 1.8
Elongation at break (%)	ASTM D638 (ISO527, GB/T 1040)	12.24 ± 1.44
Bending modulus (MPa)	ASTM D790 (ISO 178, GB/T 9341)	2044 ± 55
Bending strength (MPa)	ASTM D790 (ISO 178, GB/T 9341)	94.1 ± 0.9
Impact strength (kJ/m ²)	ASTM D256 (ISO 179, GB/T 1043)	25.1 ± 1.9