



CHANG CHUN PLASTICS

Product Description

PBT 1100-205S is an unreinforced impact modified natural color injection molding grade.

Physical	Value	Unit	Method
Density	1.28	g/cm ³	ISO 1183
Melt Mass-Flow Rate(MFR) (250 °C)	15	g/10min	ISO 1133
Molding Shrinkage			
Transverse	1.6-1.8	%	ISO 294-4
Parallel	1.8-2.0	%	ISO 294-4

Mechanical

Tensile Stress (Break, 23 °C)	50	MPa	ISO 527-2
Tensile Strain (Break, 23 °C)	50	%	ISO 527-2
Tensile Modulus (23 °C)	2100	MPa	ISO 527-2
Flexural Stress (23 °C)	75	MPa	ISO 178
Flexural Modulus (23 °C)	2100	MPa	ISO 178
Charpy Notched Impact Strength (23 °C)	9.0	KJ/m ²	ISO 179/1eA

Thermal

Deflection Temperature Under Load			
0.45MPa, Unannealed	155	°C	ISO 75-2/B
1.80MPa, Unannealed	55	°C	ISO 75-2/A
Melting Temperature	225	°C	ISO 11357-3

Flammability

Flame Rating	HB	UL 94
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Electrical

Dielectric strength, 2mm thickness	19	KV/mm	IEC 60243
Volume resistivity	10 ¹⁴	Ω-cm	IEC 60093
Surface resistivity	10 ¹³	Ω	IEC 60093

Injection

Drying Temperature	120-140	°C	-
Drying Time	4	Hr	-
Process Temperature	240-270	°C	-
Mold temperature	60-100	°C	-