

LONGLITE® PBT 1100-104S

 Chang Chun Plastics Co., Ltd. (CCP Group) - *Polybutylene Terephthalate*
General Information
Product Description

PBT 1100-104S is an unreinforced black color injection molding grade.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Uses	• Automotive Applications
Automotive Specifications	• GM GMW17539P-PBT
Appearance	• Black
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	27	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.6 to 1.8	%	
Flow	1.8 to 2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	319000	psi	ISO 527-1
Tensile Stress (Break, 73°F)	7980	psi	ISO 527-2
Tensile Strain (Break, 73°F)	30	%	ISO 527-2
Flexural Modulus (73°F)	334000	psi	ISO 178
Flexural Stress (73°F)	12300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.4	ft-lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	311	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	131	°F	ISO 75-2/A
Melting Temperature	437	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	480	V/mil	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248 to 284	°F
Drying Time	4.0	hr
Processing (Melt) Temp	464 to 518	°F
Mold Temperature	140 to 212	°F

