

LONGLITE® PBT 3010-104S

Chang Chun Plastics Co., Ltd. (CCP Group) - *Polybutylene Terephthalate*

General Information

Product Description

PBT 3010-104S is a 10% glass fiber reinforced black color injection molding grade.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Appearance	• Black
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	25	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.1 to 1.4	%	
Flow	0.30 to 0.60	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	609000	psi	ISO 527-1
Tensile Stress (Break, 73°F)	10900	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.5	%	ISO 527-2
Flexural Modulus (73°F)	493000	psi	ISO 178
Flexural Stress (73°F)	16700	psi	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.3	ft·lb/in ²	ISO 179/1eA

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	410	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	365	°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+15	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	560	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

