

**LONGLITE® PBT 4820-BK**

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

**General Information**
**Product Description**

PBT 4820-BK is a 20% glass fiber reinforced flame retardant injection molding grade.

**General**

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Flame Retardant
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm <sup>3</sup>	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	0.90 to 1.2	%	
Flow	0.30 to 0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.06E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	15200	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.4	%	ISO 527-2
Flexural Modulus (73°F)	798000	psi	ISO 178
Flexural Stress (73°F)	21800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.1	ft·lb/in <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	428	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	401	°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)	640	V/mil	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		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

