

LONGLITE® PBT 4815-BK

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

General Information

Product Description

PBT 4815-BK is a 15% glass fiber reinforced flame retardant injection molding grade.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Features	• Flame Retardant
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	20	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.1 to 1.3	%	
Flow	0.40 to 0.60	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	928000	psi	ISO 527-1
Tensile Stress (Break, 73°F)	13100	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.4	%	ISO 527-2
Flexural Modulus (73°F)	696000	psi	ISO 178
Flexural Stress (73°F)	19600	psi	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.6	ft·lb/in ²	ISO 179/1eA

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	419	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	383	°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

