

OP - PBT 15GF

Polybutylene Terephthalate

Oxford Polymers

Message:

OP-PBT 15GF is a polybutene terephthalate (PBT) material, which contains a 15% glass fiber reinforced material. This product is available in North America and is processed by injection molding. The main characteristics of OP-PBT 15GF are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60 - 1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	89.6	MPa	ASTM D638
Flexural Modulus	4480	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (4°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	204	°C	ASTM D648
1.8 MPa, not annealed	188	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.59 mm	HB		UL 94
3.18 mm	HB		UL 94
Additional Information			
Melt Mass- Flow Rate (MFR), ASTM D1238, 210°C / 2.16 kg: 8 to 16 g/10 min			
Injection	Nominal Value	Unit	
Drying Temperature	116 - 121	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	238 - 254	°C	
Middle Temperature	243 - 260	°C	
Front Temperature	249 - 266	°C	
Processing (Melt) Temp	232 - 260	°C	
Mold Temperature	71.1 - 87.8	°C	

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