

OP - PBT INJ

Polybutylene Terephthalate

Oxford Polymers

Message:

OP-PBT INJ is a polybutene terephthalate (PBT) material. This product is available in North America and is processed by injection molding. The main characteristics of OP-PBT INJ are: flame retardant/rated flame.

General Information			
Features	General		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.6 - 2.2	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	48.3	MPa	ASTM D638
Fracture	48.3	MPa	ASTM D638
Flexural Modulus	2310	MPa	ASTM D790
Flexural Strength	79.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (4°C)	53	J/m	ASTM D256
Dart Drop Impact	36.2	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	149	°C	ASTM D648
1.8 MPa, not annealed	60.0	°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: 12 to 20 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	232 - 249	°C	
Middle Temperature	238 - 254	°C	

Front Temperature	243 - 260	°C
Processing (Melt) Temp	232 - 260	°C
Mold Temperature	43.3 - 76.7	°C

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Recommended distributors for this material

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