

# OP - PBT 15GF-FR

Polybutylene Terephthalate

Oxford Polymers

## Message:

OP-PBT 15GF-FR 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 features of OP-PBT 15GF-FR are:

- flame retardant/rated flame
- Flame Retardant

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Flame retardancy		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 - 0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	89.6	MPa	ASTM D638
Flexural Modulus	4930	MPa	ASTM D790
Flexural Strength	138	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	174	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.59 mm	V-0		UL 94
3.18 mm	V-0		UL 94
Additional Information			
Melt Mass- Flow Rate (MFR), ASTM D1238, 210°C / 2.16 kg: 10 to 18 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	246 - 274	°C
Mold Temperature	71.1 - 87.8	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

