

Toughblend® PBT-1600

Polybutylene Terephthalate

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

Message:

Toughblend® PBT-1600 is a glass fiber reinforced compound. This grade features high heat resistance, excellent dimensional stability with high mechanical properties.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Dimensional Stability		
	Good Weather Resistance		
	High Heat Resistance		
Uses	Appliance Components		
	Automotive Applications		
	Housings		
	Industrial Parts		
	Power/Other Tools		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	135	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	8280	MPa	ASTM D790
Flexural Strength	198	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 4.00 mm	234	°C	
1.8 MPa, Unannealed, 4.00 mm	218	°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0 to 6.0	hr	

Rear Temperature	240 to 245	°C
Middle Temperature	245 to 250	°C
Front Temperature	255 to 260	°C
Nozzle Temperature	255 to 260	°C
Processing (Melt) Temp	240 to 260	°C
Mold Temperature	80.0 to 100	°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

