

# Toughblend® PBT-1400

Polybutylene Terephthalate

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

Message:

Toughblend® PBT-1400 is a glass fiber reinforced compound; offering good mechanical and thermal properties, with additional good chemical resistance.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Chemical Resistance		
Uses	Automotive Applications		
	Industrial Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	120	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	6000	MPa	ASTM D790
Flexural Strength	180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 4.00 mm	230	°C	
1.8 MPa, Unannealed, 4.00 mm	215	°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

