

# Toughblend® PP-1800

Polypropylene

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

Message:

Toughblend® PP-1800 is a glass fiber reinforced coupled polypropylene compound. It's offering high rigidity and high heat deflection temperatures along with very good creep resistance.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Chemically Coupled		
	Good Creep Resistance		
	High Heat Resistance		
	High Rigidity		
Uses	Automotive Applications		
	Industrial Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	90.0	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6330	MPa	ASTM D790
Flexural Strength	142	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 4.00 mm	169	°C	
1.8 MPa, Unannealed, 4.00 mm	150	°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	190 to 200	°C	
Middle Temperature	200 to 210	°C	

Front Temperature	210 to 220	°C
Nozzle Temperature	220 to 230	°C
Processing (Melt) Temp	190 to 230	°C
Mold Temperature	60.0 to 70.0	°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

