

# Electroblend® PBT-2800

Polybutylene Terephthalate

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

## Message:

Electroblend® PBT-2800 is a carbon fiber reinforced polybutylene terephthalate compound characterized by electrically conductive and high mechanical properties.

General Information			
Filler / Reinforcement	Carbon Fiber, 15% Filler by Weight		
Features	Electrically Conductive		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Industrial Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	130	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	10700	MPa	ASTM D790
Flexural Strength	190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm)	212	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+5	ohms	ASTM D257
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	250 to 255	°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

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