

FRblend® PBT-1309

Polybutylene Terephthalate

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

Message:

FRblend® PBT-1309 is carbon and glass fiber reinforced, flame retardant polybutylene-terephthalate compound. This grade offers good electrical properties and flame resistance with balance mechanical properties.

General Information			
Filler / Reinforcement	Glass\Carbon Fiber		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Electrical Properties		
Uses	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.20	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	21200	MPa	ASTM D638
Tensile Strength	110	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	10800	MPa	ASTM D790
Flexural Strength	180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	86	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm)	202	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	230 to 240	°C	
Middle Temperature	235 to 245	°C	
Front Temperature	240 to 250	°C	
Nozzle Temperature	250 to 260	°C	

Mold Temperature	50.0 to 90.0	°C
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