

Electrafil® PBT GF10 SS5 MB

Polybutylene Terephthalate
Techmer Engineered Solutions

Message:

Electrafil® PBT GF10 SS5 MB is a Polybutylene Terephthalate (PBT) product filled with 10% glass fiber. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
Conductive

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Antistatic		
	Statically Conductive		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.90	%	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	49.6	MPa	ASTM D638
Tensile Elongation (Break)	7.0	%	ASTM D638
Flexural Modulus	3520	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	48	J/m	ASTM D256
Unnotched Izod Impact	800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	108	°C	ASTM D648
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6 to 1.0E+9	ohms	ASTM D257
Volume Resistivity	1.0E+6 to 1.0E+9	ohms · cm	ASTM D257
Static Decay	< 2.0	sec	MIL PRF-81705D
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Rear Temperature	232 to 274	°C
Middle Temperature	232 to 274	°C
Front Temperature	232 to 274	°C
Processing (Melt) Temp	232 to 246	°C
Mold Temperature	65.6 to 82.2	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm

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