

Electrafil® PEI 04001 MB

Polyether Imide

Techmer Engineered Solutions

Message:

Electrafil® PEI 04001 MB is a Polyether Imide (PEI) product filled with stainless steel fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Electromagnetic Shielding (EMI)

General Information			
Filler / Reinforcement	Stainless Steel Fiber		
Features	Electromagnetic Shielding (EMI)		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	110	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	3590	MPa	ASTM D790
Flexural Strength	169	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	202	°C	ASTM D648
CLTE - Flow	5.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 1.0E+3	ohms	ASTM D257
Volume Resistivity	1.0 to 1.0E+3	ohms · cm	ASTM D257
EMI Attenuation	50	dB	ASTM D4935
Static Decay	< 0.1	sec	FTMS 101B
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94

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