

# PREMIER™ PEI-140

Polyether Imide

Chomerics, div. of Parker Hannifin Corp.

Message:

PREMIER™ PEI-140 is a custom blend of polyetherimide plus engineered filler for stable electrical, mechanical and physical performance at high continuous temperature exposures. It is filled with the production proven PREMIER proprietary filler system that is formulated for consistent shielding over a wide range of frequencies.

General Information			
Filler / Reinforcement	Nickel-Coated Carbon Fiber		
	Stainless Steel Fiber		
Features	Electrically Conductive		
	Electromagnetic Shielding (EMI)		
	Good Chemical Resistance		
	Good Corrosion Resistance		
	High Strength		
	Low Density		
	Non-Corrosive		
	Recyclable Material		
	Sound Damping		
Uses	Aircraft Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
	Preformed Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.61	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.35	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15800	MPa	ASTM D638
Tensile Strength (Break)	103	MPa	ASTM D638
Tensile Elongation (Break)	4.3	%	ASTM D638
Flexural Modulus	8200	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	45.0	J/m	ASTM D6110
Notched Izod Impact (23°C)	60	J/m	ASTM D256
Unnotched Izod Impact (23°C)	210	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	184	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity <sup>1</sup>	0.45	ohms	Internal Method
Volume Resistivity <sup>2</sup>	0.38	ohms·cm	Internal Method
Shielding Effectiveness			
1.80 mm <sup>3</sup>	80	dB	IEEE 299
1.80 mm <sup>4</sup>	72	dB	ASTM D4935
Smoke Density <sup>5</sup>			ASTM E662
2.00 mm	30	Ds	
2.50 mm	30	Ds	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Oxygen Index	41	%	ASTM D2863
NOTE			
1.	MIL-DTL-83528C		
2.	PRE-012		
3.	800 to 18,000 MHz		
4.	30 to 1000 MHz		
5.	4 minutes		

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