

RTP 1482 HEC

Polyethersulfone

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.

General Information			
Filler / Reinforcement	Nickel plated carbon fiber, 15% filler by weight		
Features	Conductivity		
	Electromagnetic shielding (EMI)		
	Radio frequency shielding (RFI)		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8270	MPa	ASTM D638
Tensile Strength	100	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	7240	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Compressive Strength	103	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	640	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648

1.8 MPa, not annealed	207	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5	ohms	ASTM D257
Volume Resistivity	1.0E+2	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94

Additional Information

The value listed as UL-94, was tested in accordance with RTP Company tests. Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 2mil/in. Shielding Effectiveness, ASTM D-4935: 30db

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	6.0	hr
Suggested Max Moisture	0.040	%
Suggested Max Regrind	20	%
Rear Temperature	343 - 399	°C
Middle Temperature	343 - 399	°C
Front Temperature	343 - 399	°C
Mold Temperature	93.3 - 177	°C
Injection Pressure	103 - 138	MPa
Clamp Tonnage	6.9 - 11	kN/cm ²

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