RTP 1381 HEC

Polyphenylene Sulfide

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 graphite fiber, 10% filler by weight		
Features	Conductivity Electromagnetic shielding (EMI) Radio frequency shielding (RFI)		
RoHS Compliance	Contact manufacturer		
Appearance	Unspecified Color Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.41	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	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	55.2	MPa	ASTM D638
Tensile Elongation (Break)	0.70	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Compressive Strength	82.7	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	27	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	91	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	260	°C	ASTM D648
1.8 MPa, not annealed	232	°C	ASTM D648

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	30	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 6mil/in.Shielding Effectiveness, ASTM D-4935: 10-20 dB			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	149	°C	
Drying Time	6.0	hr	
Suggested Max Moisture	0.040	%	
Suggested Max Regrind	20	%	
Rear Temperature	302 - 343	°C	
Middle Temperature	302 - 343	°C	
Front Temperature	302 - 343	°C	
Mold Temperature	93.3 - 177	°C	
Injection Pressure	103 - 138	MPa	
Clamp Tonnage	6.9 - 11	kN/cm^2	

Recommended distributors for this material

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