RTP 1385 HM

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	Carbon fiber reinforced material, 30% filler by weight		
Features	Rigid, good Heat resistance, medium		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.47	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.050	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	33100	MPa	ASTM D638
Tensile Strength	172	MPa	ASTM D638
Tensile Elongation (Yield)	0.50	%	ASTM D638
Flexural Modulus	24800	MPa	ASTM D790
Flexural Strength	259	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	48	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	340	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	50	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm)	V-0		UL 94
Additional Information			

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 1mil/in.Tensile Elongation, ASTM D-638: 0-1%The value listed as flammability, UL 94, was tested in accordance with RTP test standards.RTP 1385 HM is a 30% carbon fiber reinforced PPS. It is characterized with excellent physical properties, stiffness, heat resistance and is light weight.

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	65.6 - 177	°C
Injection Pressure	68.9 - 103	MPa
Clamp Tonnage	6.9 - 11	kN/cm^2

Recommended distributors for this material

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