RTP 1387 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.
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight		
Features	Heat resistance, high Flame retardancy		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.60	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	37900	MPa	ASTM D638
Tensile Strength	114	MPa	ASTM D638
Tensile Elongation (Yield)	0.50	%	ASTM D638
Flexural Modulus	31000	MPa	ASTM D790
Flexural Strength	165	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	37	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	160	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	260	°C	ASTM D648
CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+5	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.The value listed as flammability, UL 94, was tested in accordance with RTP test standards.RTP 1380 HM Series materials are high modulus carbon fiber PPS. They are characterized by excellent physical properties, extremely high moduli, heat resistance and inherently flame retardant. RTP 1391 HM exhibits a modulus greater than that of aluminum with a specific gravity 40% less than aluminum.

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	6.0	hr
Suggested Max Regrind	20	%
Rear Temperature	285 - 343	°C
Middle Temperature	285 - 343	°C
Front Temperature	285 - 343	°C
Mold Temperature	65.6 - 177	°C
Injection Pressure	68.9 - 103	MPa
Back Pressure	0.345 - 0.689	MPa
Screw Speed	60 - 90	rpm
Clamp Tonnage	1.4	kN/cm^2

Recommended distributors for this material

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WECHAT