RTP 1305 EF

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	Glass fiber reinforced material, 30% filler by weight		
Features	High strength Good liquidity Good chemical resistance Heat resistance, medium Flame retardancy		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.59	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	13100	MPa	ASTM D638
Tensile Strength	117	MPa	ASTM D638
Tensile Elongation (Yield)	1.1	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Compressive Strength	152	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	85	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	320	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	2.5E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.30	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	14	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.50		ASTM D150
Dissipation Factor (1 MHz)	1.0E-3		ASTM D150
Arc Resistance	120	sec	ASTM D495
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.: 4mil/in.The value listed as flammability, UL 94, was tested in accordance with RTP test standards.This material is resistant to heat and can be used in low load applications operating up to 500 F. Strengths and chemical resistance are excellent and the material is flame retardant.

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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