RTP 105 CC FR SP

Polypropylene

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.
Glass Fiber 30% - Chemically Coupled - Flame Retardant - UL94

General Information			
UL YellowCard	E84658-251546		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Chemical coupling Flame retardancy		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.44	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.15 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7930	MPa	ASTM D638
Tensile Strength	65.5	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	530	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	157	°C	ASTM D648
1.8 MPa, not annealed	149	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-1		UL 94
3.00 mm	V-0		UL 94

Additional Information
Melt Mass-Flow Rate, ASTM D1238, 230°C/2.16 kg: 2 to 4 g/10 minTensile Elongation, ASTM D638: 3 to 5%Volume Resistivity, ASTM D257: >1E+15 ohm-cm

Injection	Nominal Value	Unit
Drying Temperature	79.4	°C
Drying Time	2.0	hr
Processing (Melt) Temp	191 - 232	°C
Mold Temperature	32.2 - 65.6	°C
Injection Pressure	68.9 - 103	MPa

Recommended distributors for this material

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