

RTP 102 FR

Polypropylene

RTP Company

Message:

Glass Fiber - Flame Retardant

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	Flame Retardant		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0 to 4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5860	MPa	ASTM D638
Tensile Strength	44.8	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	4480	MPa	ASTM D790
Flexural Strength	72.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	190	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	138	°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 (0.800 mm, ** Values per RTP Company testing.)	V-0		UL 94
Additional Information	Nominal Value	Unit	
Primary Additive	15	%	
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	2.0	hr	

Processing (Melt) Temp	191 to 232	°C
Mold Temperature	32.2 to 65.6	°C
Injection Pressure	68.9 to 103	MPa

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