

RTP 103 SP (20% FOAMED)

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.
This Series of materials is specially formulated to offer optimum physical properties for structural foam applications. They are designed for molding with the nitrogen or chemical blowing agent process. Values shown are based on 20% density reduction.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Foamable property		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.838	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3790	MPa	ASTM D638
Tensile Strength (Yield)	33.1	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength (Yield)	45.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	210	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	132	°C	ASTM D648
1.8 MPa, not annealed	110	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm, Values per RTP Company testing.)	HB		UL 94
Additional Information			
Molding Shrinkage, Linear-Flow, ASTM D955, 6.35mm: 6mm/m.			
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	

Drying Time	2.0	hr
Suggested Max Regrind	20	%
Rear Temperature	218 - 274	°C
Middle Temperature	218 - 274	°C
Front Temperature	218 - 274	°C
Mold Temperature	32.0 - 65.6	°C
Injection Pressure	68.9 - 103	MPa
Back Pressure	0.345	MPa
Screw Speed	50 - 90	rpm
Clamp Tonnage	6.9 - 11	kN/cm ²

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Recommended distributors for this material

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