

RTP 102 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.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Additive	Nucleating agent		
Features	Nucleated		
	Foamable property		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Structural foaming molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.808	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	84		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3030	MPa	ASTM D638
Tensile Strength	31.0	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	2620	MPa	ASTM D790
Flexural Strength	44.1	MPa	ASTM D790
Compressive Strength	34.5	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	48	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	129	°C	ASTM D648
1.8 MPa, not annealed	107	°C	ASTM D648
CLTE - Flow	3.8E-5	cm/cm/°C	ASTM D696

Thermal Conductivity	0.22	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.70		ASTM D150
Dissipation Factor (1 MHz)	1.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm)	HB		UL 94
Additional Information			
Mold Shrinkage, ASTM D955, 0.250 in: 7 mil/inTensile Elongation, ASTM D638: 2 - 3%			
Injection	Nominal Value	Unit	
Rear Temperature	204 - 260	°C	
Middle Temperature	204 - 260	°C	
Front Temperature	204 - 260	°C	
Injection Pressure	13.8 - 20.7	MPa	

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Recommended distributors for this material

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