

RTP 132.2

Polypropylene Homopolymer

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	Talc filler, 30% filler by weight		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength	33.8	MPa	ASTM D638
Tensile Elongation (Break)	7.5	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	55.2	MPa	ASTM D790
Compressive Strength	49.6	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	27	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	250	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	135	°C	ASTM D648
1.8 MPa, not annealed	79.4	°C	ASTM D648
CLTE - Flow	4.9E-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	20	kV/mm	ASTM D149

Dielectric Constant (1 MHz)	2.60		ASTM D150
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.59 mm, Values per RTP Company testing.)	HB	UL 94
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Additional Information

Mold Shrinkage, ASTM D-955, 0.25in.: 16mil/in.Tensile Elongation, ASTM D-638: 5-10%

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	2.0	hr
Suggested Max Regrind	20	%
Rear Temperature	232 - 274	°C
Middle Temperature	232 - 274	°C
Front Temperature	232 - 274	°C
Mold Temperature	32.2 - 65.6	°C
Injection Pressure	68.9 - 138	MPa

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