RTP 140 Z

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.
RTP 140 Z is a calcium carbonate filled polypropylene that has higher gloss, better impacts, and better colorability than other mineral filled polypropylenes.

General Information			
Filler / Reinforcement	Calcium carbonate filler, 40% filler by weight		
Features	Highlight Impact resistance, good Good coloring		
Agency Ratings	FDA not rated		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.25	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	99		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3100	MPa	ASTM D638
Tensile Strength	24.1	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	44.8	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	48	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	320	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	121	°C	ASTM D648

1.8 MPa, not annealed	76.7	°C	ASTM D648
CLTE - Flow	5.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.29	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm, Values per RTP Company testing.)	HB		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 15mil/in.			
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 - 66.0	°C	
Injection Pressure	68.9 - 103	MPa	

Recommended distributors for this material

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