RTP 140 LF

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	Calcium carbonate filler, 40% filler by weight
Features	Low liquidity
RoHS Compliance	Contact manufacturer
Appearance	Black Natural color
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18mm, injection molding	1.0	%	ASTM D955
6.35mm, injection molding	1.4	%	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 (Injection Molded)	2890	MPa	ASTM D638
Tensile Strength	24.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	10	%	ASTM D638
Flexural Modulus (Injection Molded)	2480	MPa	ASTM D790
Flexural Strength (Injection Molded)	48.0	MPa	ASTM D790
Compressive Strength	50.0	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm, Injection Molded)	32	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1100	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648

0.45 MPa, unannealed, injection molded	121	°C	ASTM D648
1.8 MPa, unannealed, injection molded	77.0	°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**
Dielectric Strength [1]	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.10		ASTM D150
Dissipation Factor (1 MHz)	7.0E-3		ASTM D150
Arc Resistance	128	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	HB		UL 94
Additional Information			
The value listed as Flammibility, UL 94, was tested in accordance with RTP Company methods.			
Injection	**Nominal Value**	**Unit**	
Rear Temperature	193 - 227	°C	
Middle Temperature	193 - 227	°C	
Front Temperature	193 - 227	°C	
Mold Temperature	32.0 - 66.0	°C	
Injection Pressure	69.0 - 103	MPa	
NOTE			
1.	Method A (short time)		

Recommended distributors for this material

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