RTP 200 GB 50

Polyamide 66

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 200 GB Series are glass bead filled nylon 6/6. These materials are problem solvers, they should be considered where warpage and moldability are critical.

General Information			
Filler / Reinforcement	Glass beads, 50% filler by weight		
Features	Bending resistance		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.55	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.12	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.70	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6210	MPa	ASTM D638
Tensile Strength (Yield)	75.8	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	5720	MPa	ASTM D790
Flexural Strength (Yield)	117	MPa	ASTM D790
Compressive Strength	58.6	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	32	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	243	°C	ASTM D648
1.8 MPa, not annealed	221	°C	ASTM D648
CLTE - Flow	5.4E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.39	W/m/K	ASTM C177

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.80		ASTM D150
Dissipation Factor (1 MHz)	0.015		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Additional Information			
The value listed as Flammability, UL 94, was tested in accordance with RTP test standards.Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 20mil/in.			
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	20	%	
Rear Temperature	274 - 288	°C	
Middle Temperature	274 - 288	°C	
Front Temperature	274 - 288	°C	
Mold Temperature	65.6 - 107	°C	
Injection Pressure	82.7 - 124	MPa	
Back Pressure	0.172 - 0.345	MPa	
Screw Speed	50 - 90	rpm	
Clamp Tonnage	6.9 - 11	kN/cm^2	

Recommended distributors for this material

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