RTP 209B

Polyamide 610

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.
Glass Reinforced nylon 6/10 offers significant improvements in strength, moduli and deflection temperature over the base resin. They have very low water absorption as compared to other nylon materials and exhibit excellent dimensional stability and high physical strengths.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Features	Good dimensional stability High strength		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.52	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.23	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	15200	MPa	ASTM D638
Tensile Strength	193	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	290	MPa	ASTM D790
Compressive Strength	179	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	160	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1300	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	224	°C	ASTM D648
1.8 MPa, not annealed	218	°C	ASTM D648

CLTE - Flow	1.6E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.56	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.80		ASTM D150
Dissipation Factor (1 MHz)	0.016		ASTM D150
Arc Resistance	130	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm)	HB		UL 94
Additional Information			
Mold Shrinkage, ASTM D955, 0.250 in: 3 mil/in			
Injection	**Nominal Value**	**Unit**	
Rear Temperature	218 - 293	°C	
Middle Temperature	218 - 293	°C	
Front Temperature	218 - 293	°C	
Mold Temperature	65.6 - 107	°C	
Injection Pressure	68.9 - 103	MPa	

Recommended distributors for this material

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