RTP 203 HS L

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.
Glass reinforced nylon 6/6 materials offer significant improvements in strength, moduli, and deflection temperature over the base resin. The RTP 200 HS L series materials are among the strongest of engineering thermoplastics.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer Lubricant		
Features	Thermal Stability Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.28	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.80	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8270	MPa	ASTM D638
Tensile Strength	131	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	197	MPa	ASTM D790
Compressive Strength	117	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	69	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	450	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	249	°C	ASTM D648
1.8 MPa, not annealed	243	°C	ASTM D648
CLTE - Flow	4.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.43	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.75		ASTM D150
Dissipation Factor (1 MHz)	0.019		ASTM D150
Arc Resistance	110	sec	ASTM D495
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, 0.25 in: 6 mil/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 - 138	MPa	

Recommended distributors for this material

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