RTP 201.3A HS

Polyamide 6

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	Glass fiber reinforced material, 13% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.23	g/cm³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18mm, injection molding	0.50	%	ASTM D955
6.35mm, injection molding	0.80	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.3	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	6550	MPa	ASTM D638
Tensile Strength	110	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	3.0	%	ASTM D638
Flexural Modulus (Injection Molded)	4820	MPa	ASTM D790
Flexural Strength (Injection Molded)	158	MPa	ASTM D790
Compressive Strength	117	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm, Injection Molded)	64	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, injection molded	207	°C	ASTM D648

1.8 MPa, unannealed, injection molded	193	°C	ASTM D648
CLTE - Flow	4.5E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.37	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength [1]	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.70		ASTM D150
Dissipation Factor (1 MHz)	0.019		ASTM D150
Arc Resistance	112	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	221 - 271	°C	
Middle Temperature	221 - 271	°C	
Front Temperature	221 - 271	°C	
Mold Temperature	54.0 - 93.0	°C	
Injection Pressure	69.0 - 103	MPa	
NOTE			
1.	Method A (short time)		

Recommended distributors for this material

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