RTP 200A SI 2 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			
Additive	Silicone lubricant heat stabilizer		
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	1.13	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.3	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.9	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1860	MPa	ASTM D638
Tensile Strength	82.7	MPa	ASTM D638
Tensile Elongation (Break)	75	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Compressive Strength	68.9	MPa	ASTM D695
Coefficient of Friction (With Metal-Dynamic)	0.10		ASTM D1894
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	850	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648

0.45 MPa, not annealed	171	°C	ASTM D648
1.8 MPa, not annealed	71.1	°C	ASTM D648
CLTE - Flow	8.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.25	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+11	ohms·cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.40		ASTM D150
Dissipation Factor (1 MHz)	0.030		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm, RTP Tested)	V-2		UL 94
Additional Information			

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 17mil/in.Wear Factor, K, ASTM D-3702: 50E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.10The wear factor and dynamic coefficient of friction were both tested on a Falex Model No.6 Wear Testing Machine at 50 FPM, 2000 PV, against C1018 steel of hardness 15-25 Rockwell C, 14-17 micro smoothness.

Injection	Nominal Value	Unit
Rear Temperature	232 - 260	°C
Middle Temperature	232 - 260	°C
Front Temperature	232 - 260	°C
Mold Temperature	65.6 - 93.3	°C
Injection Pressure	68.9 - 138	MPa

Recommended distributors for this material

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