

RTP 200H TFE 10 SI 1

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.

General Information			
Additive	PTFE lubricant (10%)		
	Impact modifier		
	Silicone lubricant (1%)		
Features	Impact modification		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.5	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.80	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	MPa	ASTM D638
Tensile Strength	36.5	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790
Flexural Strength	55.2	MPa	ASTM D790
Compressive Strength	30.3	MPa	ASTM D695
Coefficient of Friction (With Metal-Dynamic)	0.10		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	210	J/m	ASTM D256
Unnotched Izod Impact (6.35 mm)	1200	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	216	°C	ASTM D648
1.8 MPa, not annealed	82.2	°C	ASTM D648
CLTE - Flow	8.1E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.26	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)	3.60		ASTM D150
Dissipation Factor (1 MHz)	0.015		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, Values per RTP Company testing.)	HB		UL 94
Additional Information			

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 20mil/in.Flammability, ASTM D-635: B in/min.Wear Factor, K, ASTM D-3702: 30E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.10The wear factor and dynamic coefficient of friction were both tested on thrust washer apparatus at 300 FPM, 8500 PV, against 1141 Ryex steel of hardness 18-22 Rockwell C, 12-16 micro smoothness.

Injection	Nominal Value	Unit
Drying Temperature	79.4	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Suggested Max Re grind	20	%
Rear Temperature	282 - 296	°C
Middle Temperature	282 - 296	°C
Front Temperature	282 - 296	°C
Mold Temperature	65.6 - 107	°C
Injection Pressure	103 - 138	MPa

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