RTP 200D TFE 20 SI 2.5

Polyamide 612

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.
-Preliminary Product Data per RTP Co.-

General Information			
Additive	PTFE lubricant (20%) Silicone lubricant (3%)		
Features	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.19	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.1	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1860	MPa	ASTM D638
Tensile Strength	48.3	MPa	ASTM D638
Tensile Elongation (Break)	9.5	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength	62.1	MPa	ASTM D790
Compressive Strength	27.6	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (6.35 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (6.35 mm)	430	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	204	°C	ASTM D648
1.8 MPa, not annealed	93.3	°C	ASTM D648
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696

Thermal Conductivity	0.23	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+13	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)	HB		UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 15mil/in.Tensile Elongation, ASTM D-638: 9-10%Wear Factor, K, ASTM D-3702: 15E-10in^3/min/ft/lb/hrCoefficient of Friction, ASTM 3702, Dynamic: 0.10The coefficient of friction and wear factor were 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	254 - 282	°C
Middle Temperature	254 - 282	°C
Front Temperature	254 - 282	°C
Mold Temperature	60.0 - 93.3	°C
Injection Pressure	68.9 - 138	MPa

Recommended distributors for this material

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