RTP 1000 TFE 20 FR A

Polybutylene Terephthalate

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 (20%) Flame retardancy		
Features	Good wear resistance Lubrication Flame retardancy		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.58	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.1	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength	55.2	MPa	ASTM D638
Tensile Elongation (Break)	5.5	%	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Compressive Strength	86.2	MPa	ASTM D695
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.17		ASTM D1894
With metal-static	0.10		ASTM D1894
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	27	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	590	J/m	ASTM D4812

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	160	°C	ASTM D648
1.8 MPa, not annealed	71.1	°C	ASTM D648
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.17	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.20		ASTM D150
Dissipation Factor (1 MHz)	0.016		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.794 mm)	V-0		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, 0.25in.: 23mil/in.Wear Factor, K, ASTM D-3702: 18E-10in^3/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.17Coefficient of Friction, Static, ASTM D-3702: 0.10The wear factor and 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
Drying Temperature	121	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.030	%
Suggested Max Regrind	20	%
Rear Temperature	232 - 254	°C
Middle Temperature	232 - 254	°C
Front Temperature	232 - 254	°C
Mold Temperature	37.8 - 121	°C
Injection Pressure	68.9 - 103	MPa

Recommended distributors for this material

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