RTP 800 Z TFE 18 SI 2

Acetal (POM) Copolymer

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 (18%) Silicone lubricant (2%)		
Features	Lubrication		
Agency Ratings	FDA not rated		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.50	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.17	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2480	MPa	ASTM D638
Tensile Strength	48.3	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	2210	MPa	ASTM D790
Flexural Strength	79.3	MPa	ASTM D790
Coefficient of Friction (With Metal-Dynamic)	0.11		ASTM D1894
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (6.35 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (6.35 mm)	370	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	152	°C	ASTM D648
1.8 MPa, not annealed	104	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257

Dielectric Strength	19	kV/mm	ASTM D149

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Additional Information
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 30mil/in.Flammability, ASTM D-635: B in/min.Wear Factor, K, ASTM D-3702: 7E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.11Limiting PV @ 100 ft/min.: 15,000The wear factor and 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	121	°C
Drying Time	2.0	hr
Suggested Max Moisture	0.15	%
Suggested Max Regrind	20	%
Rear Temperature	188 - 210	°C
Middle Temperature	188 - 210	°C
Front Temperature	188 - 210	°C
Mold Temperature	93.3 - 121	°C
Injection Pressure	103 - 138	MPa
Back Pressure	0.172 - 0.345	MPa

Recommended distributors for this material

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