RTP 1381 P-1 TFE 20

Polyphenylene Sulfide

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			
Filler / Reinforcement	Carbon fiber reinforced material, 10% filler by weight		
Additive	PTFE lubricant (20%)		
Features	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.55	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.19	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength	138	MPa	ASTM D638
Tensile Elongation (Break)	0.50	%	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Compressive Strength	138	MPa	ASTM D695
Coefficient of Friction (With Metal-Dynamic)	0.17		ASTM D1894
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	37	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	320	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	260	°C	ASTM D648
1.8 MPa, not annealed	254	°C	ASTM D648
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.33	W/m/K	ASTM C177

Flammability	Nominal Value	Test Method
Flame Rating	V-0	UL 94

Additional Information
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 2.1mil/in.Tensile Elongation, ASTM D-638: 0-1%Wear Factor, K, ASTM D-3702: 80E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.17The 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	149	°C
Drying Time	6.0	hr
Suggested Max Moisture	0.040	%
Suggested Max Regrind	20	%
Rear Temperature	302 - 343	°C
Middle Temperature	302 - 343	°C
Front Temperature	302 - 343	°C
Mold Temperature	135 - 177	°C
Injection Pressure	103 - 138	MPa
Clamp Tonnage	6.9 - 11	kN/cm²

Recommended distributors for this material

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