

# RTP 1387 TFE 13 SI 2

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.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight		
Additive	PTFE lubricant (13%)		
	Silicone lubricant (2%)		
Features	Good chemical resistance		
	Good wear resistance		
	Heat resistance, medium		
	Lubrication		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Appearance	Unspecified Color		
	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.080	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	32400	MPa	ASTM D638
Tensile Strength	138	MPa	ASTM D638
Tensile Elongation (Break)	0.50	%	ASTM D638
Flexural Modulus	22800	MPa	ASTM D790
Flexural Strength	221	MPa	ASTM D790
Compressive Strength	172	MPa	ASTM D695
Coefficient of Friction (With Metal-Dynamic)	0.19		ASTM D1894
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	210	J/m	ASTM D4812
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	260	°C	ASTM D648
1.8 MPa, not annealed	260	°C	ASTM D648
CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.48	W/m/K	ASTM C177
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Volume Resistivity	30	ohms · cm	ASTM D257
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating	V-0		UL 94

#### Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 1mil/in.Wear Factor, K, ASTM D-3702: 85E-10in<sup>3</sup>/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.19The 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.

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
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	65.6 - 177	°C
Injection Pressure	103 - 138	MPa
Clamp Tonnage	6.9 - 11	kN/cm <sup>2</sup>

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#### Recommended distributors for this material

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