RTP 1302 TFE 15

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	Glass fiber reinforced material, 15% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Good wear resistance Heat resistance, medium Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.56	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6890	MPa	ASTM D638
Tensile Strength	86.2	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	6550	MPa	ASTM D790
Flexural Strength	124	MPa	ASTM D790
Compressive Strength	96.5	MPa	ASTM D695
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.13		ASTM D1894
With metal-static	0.14		ASTM D1894
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	40	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	160	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	238	°C	ASTM D648
CLTE - Flow	4.1E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.30	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	14	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.40		ASTM D150
Dissipation Factor (1 MHz)	1.0E-3		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm)	V-0		UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 7mil/in.Wear Factor, K, ASTM D-3702: 110E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.13Coefficient of Friction, Static, ASTM D-3702: 0.14The 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.The value listed as flammability, UL 94, was tested in accordance with RTP test standards.

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	68.9 - 138	MPa
Clamp Tonnage	6.9 - 11	kN/cm²

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China