RTP 1107 TFE 10

Polyethylene 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.

The coefficient of friction was 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. This material offers an excellent balance of strength, heat resistance and toughness in a wear resistant composite.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight			
Additive	PTFE lubricant (10%)			
Features	High strength			
	Good wear resistance			
	Heat resistance, high			
	Good toughness			
	Lubrication			
RoHS Compliance	Contact manufacturer			
Appearance	Black			
	Natural color			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.70	g/cm³	ASTM D792	
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955	
Water Absorption (23°C, 24 hr)	0.040	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	120		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	14500	МРа	ASTM D638	
Tensile Strength (Yield)	145	MPa	ASTM D638	
Tensile Elongation (Break)	1.5	%	ASTM D638	
Flexural Modulus	12400	МРа	ASTM D790	
Flexural Strength (Yield)	221	MPa	ASTM D790	
Compressive Strength	172	MPa	ASTM D695	
Coefficient of Friction (With Metal-Dynamic)	0.15		ASTM D1894	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (3.18 mm)	96	J/m	ASTM D256	

Unnotched Izod Impact (3.18 mm)	690	J/m	ASTM D4812	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load			ASTM D648	
0.45 MPa, not annealed	232	°C	ASTM D648	
1.8 MPa, not annealed	227	°C	ASTM D648	
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696	
Thermal Conductivity	0.30	W/m/K	ASTM C177	
Flammability	Nominal Value		Test Method	
Flame Rating (1.59 mm, Values per RTP Company testing.)	НВ		UL 94	
Additional Information				
Molding Shrinkage, Linear-Flow, ASTM D955, 6.35mm: 2mm/m.				
Injection	Nominal Value	Unit		
Drying Temperature	121	°C		
Drying Time	4.0	hr		
Suggested Max Moisture	0.010	%		
Suggested Max Regrind	20	%		
Rear Temperature	260 - 299	°C		
Middle Temperature	260 - 299	°C		
Front Temperature	260 - 299	°C		
Mold Temperature	82.2 - 121	°C		
Injection Pressure	68.9 - 103	MPa		
Back Pressure	0.172 - 0.517	MPa		
Screw Speed	60 - 90	rpm		
Clamp Tonnage	6.9 - 11	kN/cm²		

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