

RTP 1085 TFE 20

Polybutylene 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.
RTP 1085 TFE 20 is a PBT reinforced with 30% carbon fiber PAN and contains 20% PTFE. This material offers excellent physical properties, wear resistance and static dissipation characteristics.
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Additive	PTFE lubricant (20%)		
Features	Conductivity		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19300	MPa	ASTM D638
Tensile Strength	131	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength	214	MPa	ASTM D790
Compressive Strength	124	MPa	ASTM D695
Coefficient of Friction (With Metal-Dynamic)	0.12		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)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	216	°C	ASTM D648

1.8 MPa, not annealed	213	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	10	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 2mil/in. Wear Factor, K, ASTM D-3702: 9E-10in³/min/ft/lb/hr Coefficient of Friction, Dynamic, ASTM D-3702: 0.12 The 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	121	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.030	%
Suggested Max Regrind	20	%
Rear Temperature	232 - 271	°C
Middle Temperature	232 - 271	°C
Front Temperature	232 - 271	°C
Mold Temperature	37.8 - 121	°C
Injection Pressure	68.9 - 103	MPa

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