

RTP 1103 TFE 15

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.
-Preliminary Product Data per RTP Co.-
This material offers an excellent balance of strength, heat resistance and toughness in a water resistant composite.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	PTFE lubricant (15%)		
Features	High strength		
	Good wear resistance		
	Heat resistance, medium		
	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	1.59	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7920	MPa	ASTM D638
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Compressive Strength	138	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	430	J/m	ASTM D4812

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	251	°C	ASTM D648
1.8 MPa, not annealed	57.0	°C	ASTM D648
CLTE - Flow	3.2E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.27	W/m/K	ASTM C177
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm, Values per RTP Company testing.)	HB		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 4mil/in.			
Injection	Nominal Value	Unit	
Drying Temperature	135	°C	
Drying Time	3.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Max Regrind	20	%	
Rear Temperature	232 - 271	°C	
Middle Temperature	232 - 271	°C	
Front Temperature	232 - 271	°C	
Processing (Melt) Temp	288	°C	
Mold Temperature	38.0 - 121	°C	
Injection Pressure	68.9 - 103	MPa	
Back Pressure	0.172 - 0.517	MPa	
Clamp Tonnage	6.9 - 11	kN/cm ²	

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