

RTP 303 TFE MC

Polycarbonate
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.-

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	PTFE lubricant		
Features	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8270	MPa	ASTM D638
Tensile Strength	82.7	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength	124	MPa	ASTM D790
Compressive Strength	75.8	MPa	ASTM D695
Coefficient of Friction (With Metal-Dynamic)	0.22		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	190	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	143	°C	ASTM D648
1.8 MPa, not annealed	138	°C	ASTM D648

CLTE - Flow	3.4E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.29	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.30		ASTM D150
Dissipation Factor (1 MHz)	8.0E-3		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-1		UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 2mil/in.Wear Factor, K, ASTM D-3702: 44E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.22The 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	0.020	%
Suggested Max Re grind	20	%
Rear Temperature	288 - 343	°C
Middle Temperature	288 - 343	°C
Front Temperature	288 - 343	°C
Mold Temperature	65.6 - 121	°C
Injection Pressure	103 - 138	MPa

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