RTP 305 TFE 15 SI

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.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Additive	PTFE lubricant (15%)			
	Silicone 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	1.54	g/cm³	ASTM D792	
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955	
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	118		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	8960	MPa	ASTM D638	
Tensile Strength	103	MPa	ASTM D638	
Tensile Elongation (Break)	1.0	%	ASTM D638	
Flexural Modulus	7580	MPa	ASTM D790	
Flexural Strength	152	MPa	ASTM D790	
Compressive Strength	93.1	MPa	ASTM D695	
Coefficient of Friction (With Metal-Dynamic)	0.20		ASTM D1894	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (6.35 mm)	110	J/m	ASTM D256	
Unnotched Izod Impact (6.35 mm)	270	J/m	ASTM D4812	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load			ASTM D648	
0.45 MPa, not annealed	149	°C	ASTM D648	

1.8 MPa, not annealed	143	°C	ASTM D648
CLTE - Flow	2.9E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.32	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)	3.40		ASTM D150
Dissipation Factor (1 MHz)	7.0E-3		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 2mil/in.Tensile Elongation, ASTM D-638: 1-2%Flammability, ASTM D-635: SE in/min.Wear Factor, K, ASTM D-3702: 30E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.20The wear factor and dynamic coefficient of friction were both tested on thrust washer apparatus at 300 FPM, 8500 PV, against 1141 Ryex steel of hardness 18-22 Rockwell C, 12-16 micro smoothness.

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Suggested Max Regrind	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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