

PermaStat® 803

Acetal (POM) Copolymer

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, 20% filler by weight		
Additive	Antistatic property		
Features	Conductivity		
	Low hygroscopicity		
	Copolymer		
	Antistatic property		
	Good coloring		
	Good chemical resistance		
	Good wear resistance		
Uses	Mobility Low to None		
	Bushings		
	Gear		
	Conveyor		
	Connector		
	Bearing		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40 - 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4130	MPa	ASTM D638
Tensile Strength (Yield)	55.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	4130	MPa	ASTM D790

Flexural Strength (Yield)	79.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	450	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10	ohms	ASTM D257
Volume Resistivity	1.0E+9	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, Values per RTP Company testing.)	HB		UL 94
Additional Information			
Molding Shrinkage, ASTM D 955, 3.175mm: 4-6mm/mTensile Elongation, ASTM D 638: 3-7%Static Decay, FTMS-4046.1, Mil B-81705C: <2.0 secondsVolume Resistivity, ASTM D 257: 10000000000 - 100000000000 ohm-cmSurface Resistivity, ASTM D 257: 100000000000 - 1000000000000 ohm/sq			
Injection	Nominal Value	Unit	
Rear Temperature	182 - 210	°C	
Middle Temperature	182 - 210	°C	
Front Temperature	182 - 210	°C	
Mold Temperature	65.6 - 93.3	°C	
Injection Pressure	68.9 - 103	MPa	

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Recommended distributors for this material

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