

# RTP 861

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.  
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Stainless steel fiber, 10% filler by weight		
Features	Antistatic property		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.35	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength	55.2	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	80	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	157	°C	ASTM D648
1.8 MPa, not annealed	110	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10	ohms	ASTM D257
Volume Resistivity	1.0E+2	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, RTP Tested)	HB		UL 94

#### Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 25mil/in. Shielding Effectiveness: 30+ dB Static Decay, FTMS 4046.1, Mil B-81705C: <2.0 seconds Shielding Effectiveness testing performed on edge-gated 6 in. x 6 in. x 0.090-0.120 in panels, using NIST test cell per NBS Technical Note 1095.

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	2.0	hr
Suggested Max Moisture	0.15	%
Suggested Max Regrind	20	%
Rear Temperature	191 - 210	°C
Middle Temperature	191 - 210	°C
Front Temperature	191 - 210	°C
Mold Temperature	93.3 - 121	°C
Injection Pressure	68.9 - 103	MPa
Back Pressure	0.172 - 0.345	MPa

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#### Recommended distributors for this material

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