

RTP 803 CC

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.
Chemically coupled glass fiber reinforced acetal offers greatly improved strengths over conventional glass fiber reinforced acetal.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	High strength		
	Chemical coupling		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8270	MPa	ASTM D638
Tensile Strength (Yield)	117	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength (Yield)	176	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)	590	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	166	°C	ASTM D648
1.8 MPa, not annealed	160	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257

Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.00		ASTM D150
Dissipation Factor (1 MHz)	5.5E-3		ASTM D150
Arc Resistance (1.59 mm)	184	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, RTP Tested)	HB		UL 94

Additional Information

Molding Shrinkage, ASTM D955, 0.25in: 7 mil/in

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
Screw Speed	50 - 90	rpm
Clamp Tonnage	6.9 - 11	kN/cm ²

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Recommended distributors for this material

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