Quadrant EPP Acetron® GP Acetal

Acetal (POM) Copolymer

Quadrant Engineering Plastic Products

Message:

Acetron GP is Quadrant EPP's general purpose acetal and is the only porosity-free acetal product available today. Investments in process technology by Quadrant EPP now provide the performance and machinability of acetal without center core porosity. Our in-line photometric quality procedure assures every plate and rod is porosity-free as measured by Quadrant EPP's quick check dye penetrant test. For details of test methods, contact Quadrant EPP. Acetron GP natural is FDA, USDA, NSF, Canada AG and 3A-Dairy compliant.

General Information			
Features	Alcohol Resistant Copolymer General Purpose Hydrocarbon Resistant		
Uses	General Purpose		
Agency Ratings	FDA Unspecified Rating HPB (Canada) Food Contact, Unspecified Rating NSF Unspecified Rating USDA Unspecified Approval		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.41	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.20	%	
Saturation	0.90	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	88		
R-Scale	120		
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength (Ultimate)	65.5	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength (Yield)	82.7	MPa	ASTM D790
Compressive Modulus	2760	MPa	ASTM D695
Compressive Strength (10% Strain)	103	MPa	ASTM D695
Shear Strength	55.2	MPa	ASTM D732

Coefficient of Friction (vs. Steel - Static)	0.25		Internal Method
Wear Factor	400	10^-8 mm³/N·m	ASTM D3702
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	53	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	104	°C	ASTM D648
Maximum Use Temperature - Long Term, Air	82	°C	
Limiting Pressure Velocity [1]	0.0946	MPa·m/s	Internal Method
Peak Crystallization Temperature (DSC)	168	°C	ASTM D3418
CLTE - Flow [2] (-40 to 149°C)	9.7E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.23	W/m/K	ASTM F433
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity [3]	> 1.0E+13	ohms	Internal Method
Dielectric Strength [4]	17	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.80		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.18 mm, Estimated Rating)	HB		UL 94
NOTE			
1.	4:1 safety factor		
2.	68°F		
3.	EOS/ESD S11.11		
4.	Method A (Short-Time)		

Recommended distributors for this material

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