

Acetron® GP Acetal

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.

Property	Method	Unit	Value
Mechanical			
Specific Gravity, 73°F	D792		1.41
Tensile Strength, 73°F	D638	psi	9,500
Tensile Modulus of Elasticity, 73°F	D638	psi	400,000
Elongation, 73°F	D638	%	30.0
Flexural Strength, 73°F	D790	psi	12,000
Flexural Modulus, 73°F	D790	psi	400,000
Shear Strength, 73°F	D732	psi	8,000
Compressive Strength, 10% Def., 73°F	D695	psi	15,000
Compressive Modulus of Elasticity, 73°F	D695	psi	400,000
Hardness, Rockwell, Scale as noted, 73°F	D785		M88 (R120)
Hardness, Durometer, Shore D scale, 73°F	D2240		D85
Izod Impact (notched), 73°F	D256 Type A	ft-lb/in	1.0
Coefficient of Friction (Dry vs Steel) Dynamic	PTM55007		0.25
Limiting PV, 73°F	PTM55007	psi-fpm	2,700
k (wear) factor	PTM55010		200
Thermal			
Coefficient of linear Thermal Expansion	E-831(TMA)	in/in/°F	5.40 x 10 ⁻⁵
Deflection Temperature 264 psi	D648	°F	220
Melting Point (crystalline) peak	D3418	°F	335
Continuous Service Temperature in Air (Max.)		°F	180
Thermal Conductivity		BTU-in/(hr-ft ² °F)	1.60

For additional information about our products call 1-800-366-0300 or via e-mail at select.support@qplas.com

All statements, technical information and recommendations contained in this publication are presented good faith, based upon tests believed to be reliable and practical field experience. The reader is cautioned, however, that Quadrant EPP cannot guarantee the accuracy or completeness of this information, and it is the customer's responsibility to determine the suitability of Quadrant EPP's products in any given application. Fluorosint, Nylatron, Ertalyte, Acetron, MC and Techtron are all registered trademarks of Quadrant EPP. Delrin and Teflon are registered trademarks of E. I. DuPont, Torlon - Solvay Advanced Polymers, Ultem-GE Plastics.

Product Data Sheet



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Property	Method	Unit	Value
Electrical			
Dielectric Strength, Short Term	D149(2)	Volts/mil	420
Surface Resistivity	EOS/ESD S11.11	Ohm/square	10 ¹⁵
Dielectric Constant, 10 ⁶ Hz	D150(2)		3.80
Dissipation Factor, 10 ⁶ Hz	D150(2)		0.005
Chemical			
Acids, Weak, 73°F/23°C, acetic acid, dilute hydrochloric or sulfuric			Limited Service
Acids, Strong, 73°F/23°C, conc. hydrochloric or sulfuric			Unacceptable
Alkalies, Weak, 73°F/23°C, dilute ammonia or sodium hydroxide			Acceptable Service
Alkalies, Strong, 73°F/23°C, conc. ammonia or sodium hydroxide			Unacceptable
Hydrocarbons-Aromatic, 73°F/23°C, benzene, toluene			Acceptable Service
Hydrocarbons-Aliphatic, 73°F/23°C, gasoline, hexane, grease			Acceptable Service
Ketones, Esters, 73°F/23°C, acetone, methyl ethyl ketone			Acceptable Service
Ethers, 73°F/23°C, diethyl ether, tetrahydrofuran			Acceptable Service
Chlorinated Solvents, 73°F/23°C, methylene chloride, chloroform			Limited Service
Alcohols, 73°F/23°C, methanol, ethanol, anti-freeze			Acceptable Service
Inorganic Salt Solutions, 73°F/23°C, sodium chloride, potassium cyanate			Acceptable Service
Continuous Sunlight, 73°F/23°C			Limited Service
Miscellaneous			
Water Absorption Immersion, 24 hr	D570	%	0.20
Water Absorption Immersion, Sat.	D570	%	0.90
Outgassing TML (Total Mass Loss)	E595	%	0.50
CVCM (Collected Volatile Condensable Material)	E595	%	0.00
WVR(Water Vapor Regained)	E595	%	0.10
Compliance			
UL94			HB
FDA			Yes
USDA			Yes
NSF			Yes
3A-Dairy			Yes
Canada AG			Yes

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