

Aardvark Polymers AARTELÂ® 820UV Acetal Copolymer Rotational Molding Resin

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Aartel 820UV is a natural acetal copolymer with added UV stabilizers. Aartel 820UV is a low viscosity resin with excellent flow characteristics. Aartel 820UV is available in natural white and may be painted, printed, or plated. Aartel 820UV may be compounded and dry colored. Aartel 820UV offers exceptional resistance to aggressive chemicals and fuels. Aartel 820UV has a fuel permeation rate of 1.2 gr-mm/m²-day. Aartel 820UV is formulated for interior and exterior applications

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aardvark-Polymers-AARTEL-820UV-Acetal-Copolymer-Rotational-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	
Water Absorption	0.22 %	0.22 %	
Moisture Absorption at Equilibrium	0.80 %	0.80 %	
Linear Mold Shrinkage	0.021 cm/cm	0.021 in/in	
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	
Tensile Strength, Yield	60.0 MPa	8700 psi	
Elongation at Break	40 %	40 %	
Flexural Yield Strength	89.0 MPa	12900 psi	
Flexural Modulus	2.60 GPa	377 ksi	
Compressive Yield Strength	110 MPa	16000 psi	10% Deflection; ASTM D-695
Fatigue Strength	21.0 MPa @# of Cycles 1.00e+7	3050 psi @# of Cycles 1.00e+7	ASTM D-671
Shear Strength	53.0 MPa	7690 psi	
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D-256
	0.430 J/cm @Temperature -29.0 Â°C	0.806 ft-lb/in @Temperature -20.2 Â°F	ASTM D-256

Tensile Impact Strength Mechanical Properties	128 kJ/m ² Metric	60.9 ft-lb/in ² English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	158 °C	316 °F	
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	
Flammability, UL94	HB	HB	

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