

Technetics Group Amicon™ Acetal Homopolymer (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Information provided by Technetics Group (formerly Plastomer Technologies)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Technetics-Group-Amicon-Acetal-Homopolymer-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	24 hours; ASTM D570 (2)
Water Absorption at Saturation	0.90 %	0.90 %	ASTM D570 (2)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	ASTM D2240
Tensile Strength, Ultimate	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Modulus of Elasticity	3.10 GPa	450 ksi	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Compressive Strength	110 MPa	16000 psi	ASTM D695
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256 type "A"
Coefficient of Friction	0.25	0.25	ASTM PTM 55007
K (wear) Factor	403 x 10 ⁻⁸ mm ³ /N-M	200 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	QTM 55010
Limiting Pressure Velocity	0.0946 MPa-m/sec	2700 psi-ft/min	4:1 safety factor

Thermal Properties	Metric	English	Comments
CTE, linear	84.6 μm/m-°C	47.0 μin/in-°F	ASTM E-831 (TMA)
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	82.2 °C	180 °F	
Flammability, UL94	HB	HB	ASTM UL-94
	@Thickness 3.17 mm	@Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7 @Frequency 1e+6 Hz	3.7 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	17.7 kV/mm	450 kV/in	ASTM D149
Dissipation Factor	0.0050 @Frequency 1e+6 Hz	0.0050 @Frequency 1e+6 Hz	ASTM D150

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