

Ashley Polymers Ashlene® 180 Acetal

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Unreinforced

Material Notes:

A general purpose, high viscosity, natural. Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-180-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Water Absorption	0.22 %	0.22 %	ASTM D570
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	ASTM D955
Melt Flow	2.5 g/10 min	2.5 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	78	78	ASTM D785
Tensile Strength, Ultimate	60.0 MPa	8700 psi	ATSM D638
Elongation at Break	65 %	65 %	ASTM D638
Flexural Strength	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
Shear Strength	55.0 MPa	7980 psi	ASTM D732
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	158 °C	316 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7	3.7	ASTM D150

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Dissipation Factor	0.0070	0.0070	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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