

Ashley Polymers Ashlene® 78MGS Nylon 6, 40% Glass Mineral reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass/Mineral Reinforced

Material Notes:

A 40% glass mineral reinforced Nylon 6 with good dimensional stability, stiffness, sink and warp resistance. Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-78MGS-Nylon-6-40-Glass-Mineral-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Water Absorption	0.090 %	0.090 %	24 hrs; ASTM D570
Moisture Absorption at Equilibrium	1.5 %	1.5 %	50% RH; ASTM D570
Water Absorption at Saturation	4.0 %	4.0 %	ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Ultimate	124 MPa	18000 psi	ATSM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Modulus	8.80 GPa	1280 ksi	ASTM D790
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	216 °C	421 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	199 °C	390 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Dielectric Strength Electrical Properties	13.4 kV/mm Metric	340 kV/in English	ASTM D149 Comments
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