

Ashley Polymers Ashlene® 830LW Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Basic Nylon 6, medium viscosity, lubricated for general purpose injection molding.Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-830LW-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Water Absorption	1.6 %	1.6 %	24 hrs; ASTM D570
Moisture Absorption at Equilibrium	2.8 %	2.8 %	50% RH; ASTM D570
Water Absorption at Saturation	9.6 %	9.6 %	ASTM D570
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	83.0 MPa	12000 psi	ATSM D638
Elongation at Break	75 %	75 %	ASTM D638
Elongation at Yield	8.0 %	8.0 %	ASTM D638
Flexural Strength	113 MPa	16400 psi	ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	216 °C	421 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	182 °C	360 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
	3.5	3.5	

Dielectric Constant Electrical Properties	Metric @ Frequency 1e+6 Hz	English @ Frequency 1e+6 Hz	ASTM D150 Comments
Dielectric Strength	16.5 kV/mm	419 kV/in	ASTM D149

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