

Ashley Polymers Ashlene® 851 Nylon 6, High Viscosity

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

Material Notes:

High viscosity for blown film, tubing, rods and shapes and blow molding. Has highest puncture resistance and clarity. FDA and NSF approved. Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-851-Nylon-6-High-Viscosity.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Water Absorption	1.7 %	1.7 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Ultimate	70.0 MPa	10200 psi	ATSM D638
Elongation at Yield	140 %	140 %	ASTM D638
Flexural Modulus	2.80 GPa	406 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	8.00e+13 ohm-cm	8.00e+13 ohm-cm	ASTM D257
Dielectric Constant	4.0 @Frequency 1000 Hz	4.0 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	16.0 kV/mm	406 kV/in	ASTM D149

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