

Ashley Polymers Ashlene® 735LD Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

An impact modified, plasticized copolymer with improved impact resistance for injection molding. Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-735LD-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ASTM D792
Water Absorption	1.5 %	1.5 %	24 hrs; ASTM D570
Moisture Absorption at Equilibrium	2.5 %	2.5 %	ASTM D570
Water Absorption at Saturation	8.5 %	8.5 %	ASTM D570
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Ultimate	66.0 MPa	9570 psi	ATSM D638
Elongation at Break	140 %	140 %	ASTM D638
Flexural Strength	84.0 MPa	12200 psi	ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
Izod Impact, Notched	1.34 J/cm	2.51 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)	177 °C	351 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ASTM D648

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