

Ashley Polymers Ashlene® 630 Nylon 6, General Purpose

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

Material Notes:

A general purpose Nylon 6 resin for injection molding. Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-630-Nylon-6-General-Purpose.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	118	118	ASTM D785
Tensile Strength, Ultimate	75.0 MPa	10900 psi	ATSM D638
Elongation at Break	65 %	65 %	ASTM D638
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	210 °C	410 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	179 °C	354 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °F	ASTM D648

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