

Ashley Polymers Ashlene® 830SMS Nylon 6, MoS2 Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, MoS2 Filled

Material Notes:

Basic Nylon 6, medium viscosity, lubricated with Molybdenum Disulfide.Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-830SMS-Nylon-6-MoS2-Filled.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in³	ASTM D792
Water Absorption	1.1 %	1.1 %	24 hrs; ASTM D570
Water Absorption at Saturation	8.0 %	8.0 %	ASTM D570
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	85.0 MPa	12300 psi	ATSM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Modulus	2.70 GPa	392 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	214 °C	417 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	ASTM D648

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