

Nylene® 451 Nylon 6, 50% RH

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

Material Notes:

Injection molding grade. Nylene 451 is recommended for molding applications requiring both maximum durability and toughness. Exceptional fatigue and wear resistance insure long product life to gears, bearings, cams, fasteners, and other load bearing parts. Nylene 451 chemically resists oil and grease. ALM, Nylene Canada, and Custom Resins are all operating companies of Polymeric Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nylene-451-Nylon-6-50-RH.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Flexural Yield Strength	28.0 MPa	4060 psi	ASTM D790
Izod Impact, Notched	3.10 J/cm	5.81 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	175 °C	347 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	238 - 249 °C	460 - 480 °F	At Nozzle
Nozzle Temperature	238 - 249 °C	460 - 480 °F	

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