

Nylene® 451 Nylon 6

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

Material Notes:

Dry as molded. 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.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	1.9 %	1.9 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	83.0 MPa	12000 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Flexural Yield Strength	102 MPa	14800 psi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 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
Flammability, UL94	V-2	V-2	

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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