

Nylene® 401, Nylon 6

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

Material Notes:

Injection molding grade. Dry As Molded. Nylene 401 is recommended for general purpose nylon molding applications in both thin and heavy sections. Nylene 401 has high flow characteristics at minimal processing temperatures. 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-401-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	1.8 %	1.8 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Yield Strength	106 MPa	15400 psi	ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	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)	182 °C	360 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	ASTM D648
Flammability, UL94	V-2	V-2	

Processing Properties	Metric	English	Comments
Processing Temperature	232 - 243 °C	450 - 469 °F	At Nozzle
Nozzle Temperature	232 - 243 °C	450 - 469 °F	

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