

GEHR Plastics ECOGEHR® PA 11 Nylon 11 Dry (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Nylon 11 is made 100% from the components of castor oil, and is thus wholly bio-based. ECOGEHR® Nylon 11 possesses similar properties to Nylon 12, and an excellent status with respect to applications that require thermal, physical, chemical and mechanical material properties. Good cold impact strength (down to -40 °F), good chemical resistance and low water absorption (only 1/6 in comparison with Nylon 6) are characteristics of the material. Information provided by GEHR Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GEHR-Plastics-ECOGEHR-PA-11-Nylon-11-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Water Absorption	0.90 %	0.90 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	ASTM D256
Tensile Strength at Break	50.00 MPa	7252 psi	ASTM D1708
Tensile Strength, Yield	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	>= 200 %	>= 200 %	ASTM D1708
Elongation at Yield	8.0 %	8.0 %	
Modulus of Elasticity	0.666 GPa	96.6 ksi	ASTM D638
Izod Impact, Notched (ISO)	203 kJ/m²	96.9 ft-lb/in²	ASTM D256
Izod Impact, Unnotched (ISO)	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	HDT/B; ASTM D648
Vicat Softening Point	180 °C	356 °F	VST/A/50; ASTM D1525

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
ELS Upgrade	Yes	
Industrially Biodegradable	No	
Renewable Content (%)	100	

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