

GEHR Plastics ECOGEHR® PA 6.10 Nylon 6.10 Conditioned, 60% Sebacic Acid

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

Nylon 6.10 is 60 % sebacic acid, which is obtained from castor oil. This material combines a low density (for polyamide) with good cold impact strength, and its low water absorption makes it very dimensionally stable. This is in addition to a very high (for bio-based polymers) continuous usage temperature of 212°F and its chemical resistance to organic solvents, for which PA is well known. This material can thus be used not only in traditional Nylon 6 applications, but also where the use of Nylon 6 previously reached its limits. Information provided by GEHR Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GEHR-Plastics-ECOGEHR-PA-610-Nylon-610-Conditioned-60-Sebacic-Acid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Water Absorption	1.4 %	1.4 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Yield	20 %	20 %	
Modulus of Elasticity	1.30 GPa	188 ksi	ASTM D638
Izod Impact, Notched (ISO)	88.2 kJ/m ²	42.0 ft-lb/in ²	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 0.46 MPa (66 psi)	65.0 °C	149 °F	HDT/A; ASTM D648

Descriptive Properties	Value	Comments
Industrially Biodegradable	No	
Renewable Content (%)	63	

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