

GEHR Plastics PA 6 Nylon 6, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Polyamide shows both a high thermostability and high stiffness, hardness and toughness. These are some of the main characteristics. Due to the fact, that the good mechanical characteristics will be achieved only after conditioning, this material must be conditioned again after annealing. In addition, this conditioning occurs with a longer storage in air automatically. Properties: high impact strength and stiffness, high impact and notching impact strength, high heat deflection temperature, good at dampening, good glide and limp home characters, good chemical stability against organic solvents and fuel, size alteration by humidity absorption must be considered, dimension stability, electrical and mechanical properties may become affected by absorbing moisture or water. Applications include bearing parts, gear wheels, pump parts, sliding rails, castors, and fittings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GEHR-Plastics-PA-6-Nylon-6-Conditioned.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ISO 1183
Water Absorption	9.5 %	9.5 %	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527
Elongation at Yield	20 %	20 %	ISO 527
Modulus of Elasticity	1.00 GPa	145 ksi	ISO 527
Charpy Impact, Notched	NB	NB	ISO 179

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{10}$ ohm-cm	$\geq 1.00 \times 10^{10}$ ohm-cm	VDE 0303
Surface Resistivity per Square	$\geq 1.00 \times 10^{10}$ ohm	$\geq 1.00 \times 10^{10}$ ohm	VDE 0303
Dielectric Constant	7.0 @Frequency 1.00e+6 Hz	7.0 @Frequency 1.00e+6 Hz	DIN 53483
Dielectric Loss Index	0.30 @Frequency 1.00e+6 Hz	0.30 @Frequency 1.00e+6 Hz	DIN 53483

Descriptive Properties	Value	Comments
Aromatic Resistance	limited	

Descriptive Properties	Value	Comments
Hydrocarbonate Resistance	limited	
Ketone Resistance	limited	
Resistance Against Hot Water	limited	

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