GEHR Plastics PA 6.6-30GF Nylon 6.6, 30% Glass Fiber, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

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. This polyamide has the highest hardness, rigidity, and a good resistance to wear and heat deflection temperature.Properties:high impact strength and stiffnesshigh impact and notching impact strength high heat deflection temperaturegood at dampeninggood glide and limp home charactersgood chemical stability against organic solvents and fuelssize alteration by humidity absorption must be considered dimension stability, electrical and mechanical properties may become affected by absorbing moisture or waterApplications 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-66-30GF-Nylon-66-30-Glass-Fiber-Dry.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ISO 1183
Water Absorption	1.7 %	1.7 %	ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	165 MPa	23900 psi	ISO 2039
Tensile Strength at Break	100 MPa	14500 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Modulus of Elasticity	5.90 GPa	856 ksi	ISO 527
Charpy Impact Unnotched	>= 5.00 J/cm²	>= 23.8 ft-lb/in²	ISO 179
Charpy Impact, Notched	0.600 J/cmÂ ²	2.86 ft-lb/in²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	DIN 53752
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.300 W/m-К	2.08 BTU-in/hr-ft²- °F	DIN 52612
Maximum Service Temperature, Air	110 °C	230 °F	
Deflection Temperature at 1.8 MPa (264 psi)	150 °C	302 °F	ISO 75

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Minimum Service Temperature, Air	-20.0 ŰC	-4.00 Å"F	Comments
Thermal Properties	Metric	English	
Flammability, UL94	НВ	НВ	

Electrical Properties	Metric	English	Comments	
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	VDE 0303	
Surface Resistivity per Square	>= 1.00e+13 ohm	>= 1.00e+13 ohm	VDE 0303	
Dielectric Constant	3.6	3.6	DIN 53483	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz		
Dielectric Strength	30.0 kV/mm	762 kV/in	VDE 0303	
Dielectric Loss Index	0.014	0.014	DIN 53483	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz		
Comparative Tracking Index	475 V	475 V	CTI; IEC 60112	

Descriptive Properties	Value	Comments
Acid Resistance	yes	
Aromatic Resistance	yes	
Bondability	yes	
CKW Resistance	no	
Color	Black	
Hydrocarbonate Resistance	yes	
Hydroxide Resistance	yes	
Ketone Resistance	yes	
Physiological indifference according	no	
Resistance Against Hot Water	yes	
UV Stabilization	yes	

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