

## GEHR Plastics PA 6 Nylon 6, Dry

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-Dry.php](http://www.lookpolymers.com/polymer_GEHR-Plastics-PA-6-Nylon-6-Dry.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ISO 1183
Water Absorption	3.0 %	3.0 %	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	ISO 527
Elongation at Break	>= 50 %	>= 50 %	ISO 527
Elongation at Yield	4.5 %	4.5 %	ISO 527
Modulus of Elasticity	3.00 GPa	435 ksi	ISO 527
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	0.900 J/cm <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	ISO 179
Coefficient of Friction	0.38 - 0.45	0.38 - 0.45	DIN 53375

Thermal Properties	Metric	English	Comments
CTE, linear	85.0 Åµm/m-Å°C @Temperature 20.0 Å°C	47.2 Åµin/in-Å°F @Temperature 68.0 Å°F	DIN 53752
Maximum Service Temperature, Air	85.0 Å°C	185 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	160 Å°C	320 Å°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	65.0 Å°C	149 Å°F	ISO 75

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-40.0 Â°C	-40.0 Â°F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	VDE 0303
Dielectric Constant	3.5 @Frequency 1.00e+6 Hz	3.5 @Frequency 1.00e+6 Hz	DIN 53483
Dielectric Loss Index	0.031 @Frequency 1.00e+6 Hz	0.031 @Frequency 1.00e+6 Hz	DIN 53483
Comparative Tracking Index	600 V	600 V	CTI; IEC 60112

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

## Contact Songhan Plastic Technology Co.,Ltd.

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