

## Azoty Tarnow™ TARNOFORM 500 GF6 POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 30% Glass Fiber Reinforced

### Material Notes:

30% glass fiber reinforced, high flow injection molding grade, suitable for applications where high strength and stiffness is required, combined with higher flowability during molding. Information provided by Zakłady Azotowe w Tarnowie-Moscicach S.A.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Azoty-Tarnow-TARNOFORM-500-GF6-POM.php](http://www.lookpolymers.com/polymer_Azoty-Tarnow-TARNOFORM-500-GF6-POM.php)

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.50 %	0.50 %	23°C/24 hr; ISO 62
Linear Mold Shrinkage	0.0102 cm/cm	0.0102 in/in	60x60x4
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294-4
Melt Flow	9.5 g/10 min @Load 2.16 kg, Temperature 190 °C	9.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	239 MPa	34700 psi	358 N; ISO 2039-1
Tensile Strength at Break	99.0 MPa	14400 psi	ISO 527
Elongation at Break	1.3 %	1.3 %	ISO 527
Tensile Modulus	10.25 GPa	1487 ksi	ISO 527
Flexural Strength	149 MPa	21600 psi	ISO 178
Flexural Modulus	9.65 GPa	1400 ksi	ISO 178
Izod Impact, Notched (ISO)	5.80 kJ/m <sup>2</sup>	2.76 ft-lb/in <sup>2</sup>	1A; ISO 180
Charpy Impact, Notched	0.510 J/cm <sup>2</sup>	2.43 ft-lb/in <sup>2</sup>	1eA; ISO 179

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.21 J/g-°C	0.289 BTU/lb-°F	
Melting Point	167 °C	333 °F	10°C/min.; ISO 3146
Maximum Service Temperature, Air	110 °C	230 °F	
Deflection Temperature at 1.8 MPa (264 psi)	163 °C	325 °F	ISO 75

Thermal Properties Vicat Softening Point	Metric 158 °C	English 511 °F	Comments 50 N, ISO 306
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	4.2 @Frequency 100 Hz	4.2 @Frequency 100 Hz	IEC 60250
	4.2 @Frequency 1e+6 Hz	4.2 @Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243
Dissipation Factor	0.0095 @Frequency 1e+6 Hz	0.0095 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 112

Processing Properties	Metric	English	Comments
Processing Temperature	180 - 230 °C	356 - 446 °F	Barrel temperature
Mold Temperature	60.0 - 120 °C	140 - 248 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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