

## Azoty Tarnow™ TARNOFORM 300 GF2 POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 10% Glass Fiber Reinforced

### Material Notes:

10% glass fiber reinforced injection molding grade, suitable for applications where increased strength and stiffness is required. 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-300-GF2-POM.php](http://www.lookpolymers.com/polymer_Azoty-Tarnow-TARNOFORM-300-GF2-POM.php)

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.26 %	0.26 %	ISO 62
Linear Mold Shrinkage	0.0181 cm/cm @Thickness 4.00 mm	0.0181 in/in @Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0227 cm/cm	0.0227 in/in	60x60x4; ISO 294-4
Melt Flow	7.3 g/10 min @Load 2.16 kg, Temperature 190 °C	7.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	202 MPa	29300 psi	358 N; ISO 2039-1
Tensile Strength, Yield	76.0 MPa	11000 psi	ISO 527
Elongation at Break	3.8 %	3.8 %	ISO 527
Tensile Modulus	5.10 GPa	740 ksi	ISO 527
Flexural Strength	107 MPa	15500 psi	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	0.380 J/cm <sup>2</sup>	1.81 ft-lb/in <sup>2</sup>	1eA; ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	167 °C	333 °F	10°C/min.; ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	159 °C	318 °F	ISO 75
Vicat Softening Point	159 °C	318 °F	50 N; ISO 306
	HB	HB	

Thermal Properties	Metric	English	Comments
	@ Thickness 3.20 mm	@ 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	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	4.0	4.0	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	25.0 kV/mm	635 kV/in	IEC 60243
Comparative Tracking Index	0.0095	0.0095	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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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