

Azoty Tarnow™ TARNOFORM 300 GF2 GB2 POM

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

Material Notes:

10% glass fiber/10% glass beads mix reinforced injection molding grade, suitable for applications where increased strength and stiffness is required with care of the surface quality. 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-GB2-POM.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Water Absorption	0.24 %	0.24 %	ISO 62
Melt Flow	8.73 g/10 min @Load 2.16 kg, Temperature 190 °C	8.73 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	211 MPa	30600 psi	358 N; ISO 2039-1
Tensile Strength, Yield	74.0 MPa	10700 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	5.20 GPa	754 ksi	ISO 527
Flexural Strength	107 MPa	15500 psi	ISO 178
Izod Impact, Notched (ISO)	4.80 kJ/m ²	2.28 ft-lb/in ²	1A; ISO 180
Charpy Impact, Notched	0.360 J/cm ²	1.71 ft-lb/in ²	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	157 °C	315 °F	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

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	IEC 60250
Dielectric Constant	4.0 @Frequency 1e+6 Hz	4.0 @Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	25.0 kV/mm	635 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	

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