

Azoty Tarnow™ TARNOFORM 300 GF4 POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 20% Glass Fiber Reinforced

Material Notes:

20% glass fiber reinforced injection molding grade with very high strength. 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-GF4-POM.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0245 cm/cm @Thickness 4.00 mm	0.0245 in/in @Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0265 cm/cm	0.0265 in/in	60x60x4; ISO 294-4
Melt Flow	6.5 g/10 min @Load 2.16 kg, Temperature 190 °C	6.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	98.0 MPa	14200 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Flexural Strength	140 MPa	20300 psi	ISO 178
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	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)	158 °C	316 °F	ISO 75
Vicat Softening Point	163 °C	325 °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
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	4.1 @Frequency 100 Hz	4.1 @Frequency 100 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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