

Azoty Tarnow™ TARNOFORM 300 GF6 POM

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

Material Notes:

30% 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-GF6-POM.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	ISO 1183
Water Absorption	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage	0.0102 cm/cm @Thickness 4.00 mm	0.0102 in/in @Thickness 0.157 in	
Melt Flow	4.3 g/10 min @Load 2.16 kg, Temperature 190 °C	4.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	200 MPa	29000 psi	358 N; ISO 2039-1
Tensile Strength at Break	120 MPa	17400 psi	ISO 527
Elongation at Break	3.5 %	3.5 %	ISO 527
Tensile Modulus	9.30 GPa	1350 ksi	ISO 527
Flexural Strength	176 MPa	25500 psi	ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	1A; ISO 180
Charpy Impact, Notched	0.570 J/cm ²	2.71 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)	163 °C	325 °F	ISO 75
Vicat Softening Point	162 °C	324 °F	50 N; ISO 306

Thermal Properties	Metric	English	Comments
Flammability, UL94	@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	4.2	4.2	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	4.2	4.2	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243
Dissipation Factor	0.0095	0.0095	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
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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