

Azoty Tarnow™ TARNOFORM 300 XEC1 POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Carbon Fiber Filled

Material Notes:

Electrically conductive, carbon fiber reinforced injection molding grade suitable for the 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-XEC1-POM.php

Physical Properties	Metric	English	Comments
Density	1.423 g/cc	0.05141 lb/in³	ISO 1183
Water Absorption	0.23 %	0.23 %	ISO 62
Linear Mold Shrinkage	0.0234 cm/cm @Thickness 4.00 mm	0.0234 in/in @Thickness 0.157 in	
Melt Flow	11.2 g/10 min @Load 2.16 kg, Temperature 190 °C	11.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	176 MPa	25500 psi	358 N; ISO 2039-1
Tensile Strength, Yield	86.0 MPa	12500 psi	ISO 527
Elongation at Break	25 %	25 %	ISO 527
Tensile Modulus	5.60 GPa	812 ksi	ISO 527
Flexural Strength	110 MPa	16000 psi	ISO 178
Izod Impact, Notched (ISO)	6.50 kJ/m²	3.09 ft-lb/in²	1A; ISO 180
Charpy Impact, Notched	0.500 J/cm²	2.38 ft-lb/in²	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)	137 °C	279 °F	ISO 75
Vicat Softening Point	155 °C	311 °F	50 N; ISO 306
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1e+05	1e+05	IEC 60093
Surface Resistance	1000 ohm	1000 ohm	IEC 60093

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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