

Azoty Tarnow™ TARNOFORM 300 HI2 POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Impact Modified

Material Notes:

Rubber modified grade with very high impact strength and damping capacity. 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-HI2-POM.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0265 cm/cm @Thickness 4.00 mm	0.0265 in/in @Thickness 0.157 in	
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 190 °C	8.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ISO 2039-2
Ball Indentation Hardness	97.0 MPa	14100 psi	358 N; ISO 2039-1
Tensile Strength, Yield	49.0 MPa	7110 psi	ISO 527
Elongation at Break	58 %	58 %	ISO 527
Flexural Strength	46.0 MPa	6670 psi	ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.24 ft-lb/in ²	1A; ISO 180
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	1eA; ISO 179

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.48 J/g-°C	0.354 BTU/lb-°F	
Melting Point	167 °C	333 °F	10°C/min.; ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	97.0 °C	207 °F	ISO 75
Vicat Softening Point	137 °C	279 °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+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.6	3.6	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 60243
Dissipation Factor	0.0255	0.0255	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 - 210 °C	356 - 410 °F	Barrel temperature
Mold Temperature	50.0 - 80.0 °C	122 - 176 °F	

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