

Azoty Tarnow™ TARNOFORM 500 HI4 POM

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

Material Notes:

Easy flow high impact grade, possessing also high 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-500-HI4-POM.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Water Absorption	0.41 %	0.41 %	23°C/24 hr; ISO 62
Melt Flow	21 g/10 min @Load 2.16 kg, Temperature 190 °C	21 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ISO 2039-2
Ball Indentation Hardness	83.0 MPa	12000 psi	358 N; ISO 2039-1
Tensile Strength, Yield	38.0 MPa	5510 psi	ISO 527
Elongation at Break	32 %	32 %	ISO 527
Flexural Strength	42.0 MPa	6090 psi	ISO 178
Charpy Impact, Notched	1.00 J/cm ²	4.76 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	164 - 167 °C	327 - 333 °F	10°C/min.; ISO 3146
Vicat Softening Point	122 °C	252 °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
	4.3	4.3	

Dielectric Constant Electrical Properties	Metric @Frequency 1e+6 Hz	English @Frequency 1e+6 Hz	IEC 60250 Comments
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 60243
Dissipation Factor	0.034 @Frequency 1e+6 Hz	0.034 @Frequency 1e+6 Hz	IEC 60250
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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