Azoty Tarnow™ TARNOFORM 700 POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

Easy flowing grade for injection molding of thin-walled parts or in case of long flow path.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-700-POM.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in³	ISO 1183
Linear Mold Shrinkage	0.026 cm/cm	0.026 in/in	
Melt Flow	48 g/10 min @Load 2.16 kg, Temperature 190 °C	48 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ISO 2039-2
Ball Indentation Hardness	135 MPa	19600 psi	358 N; ISO 2039-1
Tensile Strength, Yield	64.0 MPa	9280 psi	ISO 527
Elongation at Break	9.0 %	9.0 %	ISO 527
Flexural Strength	69.0 MPa	10000 psi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m²	2.38 ft-lb/in²	1A; ISO 180
Charpy Impact, Notched	0.400 J/cm²	1.90 ft-lb/in²	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
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	ISO 75
Vicat Softening Point	153 °C	307 °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+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	3.9 @Frequency 1e+6 Hz	3.9 @Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243
Dissipation Factor	0.0085 @Frequency 1e+6 Hz	0.0085 @Frequency 1e+6 Hz	IEC 60250
Arc Resistance	1.9 sec	1.9 sec	
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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