

Azoty Tarnow™ TARNOFORM 300 DW POM

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

Material Notes:

Tribological modified grade with combination of damping and wear reducing additives. Finished parts have low coefficient of friction and wear with reduction of acoustic emission during sliding. 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-DW-POM.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 190 °C	5.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ISO 2039-2
Ball Indentation Hardness	176 MPa	25500 psi	358 N; ISO 2039-1
Tensile Strength, Yield	53.0 MPa	7690 psi	ISO 527
Elongation at Break	15 %	15 %	ISO 527
Flexural Strength	73.0 MPa	10600 psi	ISO 178
Izod Impact, Notched (ISO)	5.30 kJ/m ²	2.52 ft-lb/in ²	1A; ISO 180
Charpy Impact, Notched	0.320 J/cm ²	1.52 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)	103 °C	217 °F	ISO 75
Vicat Softening Point	143 °C	289 °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+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00×10^{14} ohm	1.00×10^{14} ohm	IEC 60093
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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