

Azoty Tarnow™ TARNOFORM 300 M POM

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

Material Notes:

Tribological modified grade with addition of molybdenum disulphide, which causes decreased coefficient of friction and wear, especially for applications requiring high load at low sliding speed. 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-M-POM.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Melt Flow	9.0 g/10 min @Load 2.16 kg, Temperature 190 °C	9.0 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	143 MPa	20700 psi	358 N; ISO 2039-1
Tensile Strength, Yield	63.0 MPa	9140 psi	ISO 527
Elongation at Break	25 %	25 %	ISO 527
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Izod Impact, Notched (ISO)	5.60 kJ/m ²	2.67 ft-lb/in ²	1A; ISO 180
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	1eA; ISO 179

Thermal Properties	Metric	English	Comments
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)	115 °C	239 °F	ISO 75
Vicat Softening Point	156 °C	313 °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

Electrical Properties	Metric	English	Comments
Surface Resistance	$1.00e+15$ ohm	$1.00e+15$ ohm	IEC 60093
Dielectric Constant	4.1 @Frequency 1e+6 Hz	4.1 @Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243
Dissipation Factor	0.0105 @Frequency 1e+6 Hz	0.0105 @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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