

Azoty Tarnow™ TARNOFORM 300 CI2 POM

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

Material Notes:

Impact modified injection molding grade based on Tarnoform 300 reinforced with 10% MBS rubber yielding good cold impact strength and good strength of weld lines combined with good weatherability. 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-CI2-POM.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Water Absorption	0.26 %	0.26 %	ISO 62
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	110	110	ISO 2039-2
Ball Indentation Hardness	120 MPa	17400 psi	358 N; ISO 2039-1
Tensile Strength, Yield	49.0 MPa	7110 psi	ISO 527
Elongation at Break	55 %	55 %	ISO 527
Flexural Strength	52.0 MPa	7540 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
Melting Point	170 °C	338 °F	10°C/min.; ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °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+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00×10^{13} ohm	1.00×10^{13} ohm	IEC 60093
Dielectric Constant	4.3 @Frequency 1e+6 Hz	4.3 @Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243
Dissipation Factor	0.00060 @Frequency 1e+6 Hz	0.00060 @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	60.0 - 80.0 °C	140 - 176 °F	

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