

Azoty Tarnow™ TARNOFORM 300 MW4 POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Mineral Filled

Material Notes:

Mineral filled injection molding grade based on Tarnoform 300 reinforced with 20% wollastonite; such a compound has high stiffness, dimensional stability and hardness combined with low shrinkage. 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-MW4-POM.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0122 cm/cm	0.0122 in/in	60x60x4
Linear Mold Shrinkage, Transverse	0.0215 cm/cm	0.0215 in/in	ISO 294-4
Melt Flow	6.5 g/10 min @Load 2.16 kg, Temperature 190 °C	6.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ISO 2039-2
Ball Indentation Hardness	160 MPa	23200 psi	358 N; ISO 2039-1
Tensile Strength, Yield	73.0 MPa	10600 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Flexural Strength	106 MPa	15400 psi	ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	1A; ISO 180
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	1eA; ISO 179

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.30 J/g-°C	0.311 BTU/lb-°F	
Melting Point	170 °C	338 °F	10°C/min.; ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	148 °C	298 °F	ISO 75
Vicat Softening Point	158 °C	316 °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+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.0050	0.0050	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
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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