

Azoty Tarnow™ TARNOFORM 300 HI4 POM

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

Material Notes:

High impact strength grade, high damping capacity. 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-HI4-POM.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|----------|
| Density | 1.36 g/cc | 0.0491 lb/in ³ | ISO 1183 |
| Water Absorption | 0.41 % | 0.41 % | ISO 62 |
| Linear Mold Shrinkage | 0.030 cm/cm @Thickness 4.00 mm | 0.030 in/in @Thickness 0.157 in | |
| Melt Flow | 6.0 g/10 min @Load 2.16 kg, Temperature 190 °C | 6.0 g/10 min @Load 4.76 lb, Temperature 374 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|-------------------|
| Hardness, Rockwell R | 99 | 99 | ISO 2039-2 |
| Ball Indentation Hardness | 71.0 MPa | 10300 psi | 358 N; ISO 2039-1 |
| Tensile Strength, Yield | 40.0 MPa | 5800 psi | ISO 527 |
| Elongation at Break | 120 % | 120 % | ISO 527 |
| Flexural Strength | 37.0 MPa | 5370 psi | ISO 178 |
| Izod Impact, Notched (ISO) | 14.0 kJ/m ² | 6.66 ft-lb/in ² | 1A; ISO 180 |
| Charpy Impact, Notched | 1.50 J/cm ² | 7.14 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) | 80.0 °C | 176 °F | ISO 75 |
| Vicat Softening Point | 105 °C | 221 °F | 50 N; ISO 306 |
| Flammability, UL94 | HB @Thickness 3.20 mm | HB @Thickness 0.126 in | |

| Thermal Properties | Metric | English | Comments |
|----------------------------|--------------------|--------------------|-----------|
| Electrical Properties | Metric | English | Comments |
| Volume Resistivity | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+14 ohm | 1.00e+14 ohm | IEC 60093 |
| Dielectric Constant | 4.3 | 4.3 | IEC 60250 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Dielectric Strength | 20.0 kV/mm | 508 kV/in | IEC 60243 |
| Dissipation Factor | 0.034 | 0.034 | 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 - 210 °C | 356 - 410 °F | Barrel temperature |
| Mold Temperature | 50.0 - 80.0 °C | 122 - 176 °F | |

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