Azoty Tarnow™ Tarnamid® T-27 MTR Polyamide 6 - Transparent

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced

Material Notes:

Medium viscosity injection molding grade, also used for compounding, for production of monofilament, bristles and fibers.Transparent up to maximum 2.5 mm.Tarnamid® has the following main properties:High mechanical strength, rigidity and hardnessHigh impact strengthHigh vibration damping capacityGood fatigue strengthVery good sliding properties, abrasion resistance, low coefficient of frictionHigh thermal resistance, admissible temperature of continuous operation from -60°C to +150°CHigh chemical resistance, particularly to organic solvents, oils, lubricants and fuelsConsiderable moisture absorption influencing mechanical and electrical propertiesSelf-extinguishing properties (fire retardant properties)Good electro-insulating propertiesGood optical properties, relatively good transparency of molded pieces with thickness below 3.2 mm made from natural Tarnamid® (not dyed and not compounded)Can be used for the production of goods coming into contact with food (grades fulfilling requirement of European Union Directive No 2002/72/EEC) with latest amendmentsInformation provided by Azoty Tarnow™.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Azoty-Tarnow-Tarnamid-T-27-MTR-Polyamide-6-Transparent.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ISO 1183
Water Absorption	2.0 % @Time 86400 sec	2.0 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.030 cm/cm	0.030 in/in	ISO 294-4
Melt Flow	110 g/10 min @Load 5.00 kg, Temperature 275 °C	110 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	80.0 MPa @Load 36.5 kg	11600 psi @Load 80.5 lb	cond.; ISO 2039-1
	120 MPa @Load 36.5 kg	17400 psi @Load 80.5 lb	dry; ISO 2039-1
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527
Elongation at Break	50 %	50 %	ISO 527
Tensile Modulus	2.60 GPa	377 ksi	ISO 527
Flexural Strength	85.0 MPa	12300 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	NB	NB	ISO 179 1eU
Charpy Impact, Notched	0.550 J/cm²	2.62 ft-lb/in²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75
Vicat Softening Point	120 °C @Load 5.10 kg	248 °F @Load 11.2 lb	ISO 306
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
Glow Wire Test	850 °C @Thickness 2.00 mm	1560 °F @Thickness 0.0787 in	PN-EN-60695-2-12

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 93
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 93
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 243-1
Comparative Tracking Index	600 V	600 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 290 °C	446 - 554 °F	
Mold Temperature	60.0 - 120 °C	140 - 248 °F	80 - 90°C is recommended
Drying Temperature	75.0 - 100 °C @Time 7200 - 14400 sec	167 - 212 °F @Time 2.00 - 4.00 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	
Injection Pressure	80.0 - 130 MPa	11600 - 18900 psi	80 MPa is recommended

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