Azoty Tarnow™ Tarnamid® T-27 MCS I8 Polyamide 6 - Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

Material Notes:

Increased impact resistance grade. Medium viscosity injection molding grade, also used for compounding, for production of monofilament, bristles and fibers.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-MCS-I8-Polyamide-6-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ISO 1183
Water Absorption	1.6 % @Time 86400 sec	1.6 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 294-4
Melt Flow	90 g/10 min @Load 5.00 kg, Temperature 275 °C	90 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	135 MPa @Load 36.5 kg	19600 psi @Load 80.5 lb	ISO 2039-1
Tensile Strength, Yield	72.0 MPa	10400 psi	ISO 527
Elongation at Break	50 %	50 %	ISO 527
Tensile Modulus	1.00 GPa	145 ksi	cond.; ISO 527
	2.60 GPa	377 ksi	dry; ISO 527
Flexural Strength	76.0 MPa	11000 psi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179 1eU

Mechanical Properties	Metric	English	Comments
	1.00 J/cm²	4.76 ft-lb/in²	cond.; ISO 179 1eA

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	cond.; ISO 75
	57.0 °C	135 °F	dry; ISO 75
Vicat Softening Point	175 °C @Load 5.10 kg	347 °F @Load 11.2 lb	ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	cond.; IEC 93
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	dry; IEC 93
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	cond.; IEC 93
	1.00e+15 ohm	1.00e+15 ohm	dry; 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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