

Azoty Tarnow™ Tarnamid® T-27 GF40 I Polyamide 6 - Glass Fiber Reinforced

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

Material Notes:

40% Glass fiber reinforced, impact modified, 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 hardness High impact strength High vibration damping capacity Good fatigue strength Very good sliding properties, abrasion resistance, low coefficient of friction High thermal resistance, admissible temperature of continuous operation from -60°C to +150°C High chemical resistance, particularly to organic solvents, oils, lubricants and fuels Considerable moisture absorption influencing mechanical and electrical properties Self-extinguishing properties (fire retardant properties) Good electro-insulating properties Good 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 amendments Information provided by Azoty Tarnow™.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Azoty-Tarnow-Tarnamid-T-27-GF40-I-Polyamide-6-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ISO 1183
Water Absorption	1.7 %	1.7 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4
Melt Flow	25 g/10 min	25 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 275 °C	@Load 11.0 lb, Temperature 527 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	195 MPa	28300 psi	ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
Tensile Strength	160 MPa	23200 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	11.2 GPa	1620 ksi	ISO 527
Flexural Strength	<= 250 MPa	<= 36300 psi	3.5% flexure; ISO 178
Flexural Modulus	9.40 GPa	1360 ksi	ISO 178
Charpy Impact Unnotched	10.0 J/cm²	47.6 ft-lb/in²	ISO 179 1eU

Mechanical Properties	Metric/cm ²	English/lb/in ²	Comments
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Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75
Vicat Softening Point	215 °C @Load 5.10 kg	419 °F @Load 11.2 lb	ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Glow Wire Test	550 °C @Thickness 2.00 mm	1020 °F @Thickness 0.0787 in	PN-EN-60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 93
Dielectric Strength	22.0 kV/mm	559 kV/in	IEC 243-1

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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