

Azoty Tarnow™ Tarnamid® T-27 GF50 Polyamide 6 - Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled

Material Notes:

50% Glass fiber reinforced, 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-GF50-Polyamide-6-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	ISO 1183
Water Absorption	0.90 %	0.90 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4
Melt Flow	20 g/10 min	20 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	230 MPa	33400 psi	dry; ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
Tensile Strength	150 MPa	21800 psi	cond.; ISO 527
	220 MPa	31900 psi	dry; ISO 527
Elongation at Break	3.0 %	3.0 %	dry; ISO 527
	5.0 %	5.0 %	cond.; ISO 527
Tensile Modulus	11.0 GPa	1600 ksi	cond.; ISO 527
	16.0 GPa	2320 ksi	dry; ISO 527

Mechanical Properties	Metric MPa	English psi	Comments flexure; ISO 178
	<= 320 MPa	<= 46400 psi	dry, 3.5% flexure; ISO 178
Flexural Modulus	8.00 GPa	1160 ksi	cond.; ISO 178
	14.0 GPa	2030 ksi	dry; ISO 178
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179 1eU
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	dry; ISO 179 1eA
	2.20 J/cm ²	10.5 ft-lb/in ²	cond.; ISO 179 1eA

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75
Vicat Softening Point	215 °C	419 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	550 °C	1020 °F	PN-EN-60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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	32.0 kV/mm	813 kV/in	IEC 243-1
Comparative Tracking Index	500 V	500 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	167 - 212 °F	
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	

Processing Properties	Metric	English	Comments
Injection Pressure	80.0 - 130 MPa	11500 - 18900 psi	80 MPa is recommended

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