

Azoty Tarnow™ Tarnamid® T-27 GF20 GB10 Polyamide 6 - Glass Beads Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Bead Filled

Material Notes:

20% Glass fiber and 10% glass beads 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-GF20-GB10-Polyamide-6-Glass-Beads-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ISO 1183
Water Absorption	1.2 %	1.2 %	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	0.013 cm/cm	0.013 in/in	ISO 294-4
Melt Flow	40 g/10 min	40 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	120 MPa	17400 psi	cond.; ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
	220 MPa	31900 psi	dry; ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
Tensile Strength	80.0 MPa	11600 psi	cond.; ISO 527
	140 MPa	20300 psi	dry; ISO 527
Elongation at Break	5.0 %	5.0 %	dry; ISO 527

Mechanical Properties	8.0% Metric	8.0% English	cond.; ISO 527 Comments
Tensile Modulus	4.60 GPa	667 ksi	cond.; ISO 527
	7.40 GPa	1070 ksi	dry; ISO 527
Flexural Strength	<= 110 MPa	<= 16000 psi	cond., 3.5% flexure; ISO 178
	<= 200 MPa	<= 29000 psi	dry, 3.5% flexure; ISO 178
Flexural Modulus	3.60 GPa	522 ksi	cond.; ISO 178
	6.20 GPa	899 ksi	dry; ISO 178
Charpy Impact Unnotched	5.00 J/cm²	23.8 ft-lb/in²	dry; ISO 179 1eU
	7.50 J/cm²	35.7 ft-lb/in²	cond.; ISO 179 1eU
Charpy Impact, Notched	0.650 J/cm²	3.09 ft-lb/in²	dry; ISO 179 1eA
	1.10 J/cm²	5.23 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)	180 °C	356 °F	cond.; ISO 75
	195 °C	383 °F	dry; ISO 75
Vicat Softening Point	210 °C	410 °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	650 °C	1200 °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	31.0 kV/mm	787 kV/in	IEC 243-1
Comparative Tracking Index	525 V	525 V	IEC 112

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	230 - 290 °C Metric	446 - 554 °F English	Comments
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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China