

Azoty Tarnow™ Tarnamid® T-27 CF30 Polyamide 6 30% Carbon Fiber - Antistatic and Electroconductive

Category: Polymer, Thermoplastic, Nylon, Nylon 6, Nylon 6, Carbon Fiber Filled

Material Notes:

Medium viscosity injection molding grade, also used for compounding, for production of monofilament, bristles and fibers. Electroconductive grade based on carbon fiber reinforcement, very high stiffness and strength. 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-CF30-Polyamide-6-30-Carbon-Fiber-Antistatic-and-Electroconductive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ISO 1183
Melt Flow	30 g/10 min	30 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	255 MPa	37000 psi	ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
Tensile Strength	190 MPa	27600 psi	ISO 527
Elongation at Break	3.6 %	3.6 %	ISO 527
Tensile Modulus	19.2 GPa	2780 ksi	ISO 527
Flexural Strength	<= 260 MPa	<= 37700 psi	ISO 178
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179 1eU
Charpy Impact, Notched	0.660 J/cm²	3.14 ft-lb/in ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments	
Melting Point	221 °C	430 °F		



Thermal Properties	Metric	English	Comments
Vicat Softening Point	215 °C	419 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	НВ	НВ	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	0.51 ohm	0.51 ohm	IEC 93

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 %	
Injection Pressure	80.0 - 130 MPa	11600 - 18900 psi	80 MPa is recommended

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