

Azoty Tarnow™ Tarnamid® T-27 GF30 TF15 Polyamide 6 - Improved Slip Properties

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, MoS2 Filled

Material Notes:

Medium viscosity injection molding grade, also used for compounding, for production of monofilament, bristles and fibers. Low wear and low friction grade, contains molybdenum disulfide, PTFE. 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-GF30-TF15-Polyamide-6-Improved-Slip-Properties.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 275 °C	15 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	140 MPa	20300 psi	cond.; ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
Tensile Strength	200 MPa	29000 psi	dry; ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
Elongation at Break	130 MPa	18900 psi	cond.; ISO 527
	160 MPa	23200 psi	dry; ISO 527
Tensile Modulus	6.0 %	6.0 %	dry; ISO 527
	7.0 %	7.0 %	cond.; ISO 527
	8.30 GPa	1200 ksi	cond.; ISO 527

Mechanical Properties	9.50 GPa Metric	1380 ksi English	dry; ISO 527 Comments
Flexural Strength	<= 185 MPa	<= 26800 psi	cond.; ISO 178
	<= 240 MPa	<= 34800 psi	dry; ISO 178
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	dry; ISO 179 1eU
	10.0 J/cm ²	47.6 ft-lb/in ²	cond.; ISO 179 1eU
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	dry; ISO 179 1eA
	1.80 J/cm ²	8.57 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)	190 °C	374 °F	cond.; ISO 75
	200 °C	392 °F	dry; ISO 75
Vicat Softening Point	205 °C	401 °F	cond.; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	215 °C	419 °F	dry; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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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