

Azoty Tarnow™ Tarnamid® T-27 GF15 FRV0 Polyamide 6 - Flame Retarded, Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

Flame retarded grades, flammability class V0, reinforced with 15% glass fibers, without addition of any halogen compounds, red phosphorus and asbestos, doesn't release any toxic gases during burning, low smoke density during exhibits. 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-GF15-FRV0-Polyamide-6-Flame-Retarded-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4
Melt Flow	30 g/10 min @Load 5.00 kg, Temperature 275 °C	30 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

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	70.0 MPa	10200 psi	cond.; ISO 527
	120 MPa	17400 psi	dry; ISO 527
Elongation at Break	4.0 %	4.0 %	dry; ISO 527
	6.0 %	6.0 %	cond.; ISO 527

Tensile Modulus Mechanical Properties	4.30 GPa Metric	624 ksi English	cond.: ISO 527 Comments
	7.00 GPa	1020 ksi	dry; ISO 527
Flexural Strength	80.0 MPa	11600 psi	cond.; ISO 178
	140 MPa	20300 psi	dry; ISO 178
Charpy Impact Unnotched	3.00 J/cm²	14.3 ft-lb/in²	dry; ISO 179 1eU
	4.50 J/cm²	21.4 ft-lb/in²	cond.; ISO 179 1eU
Charpy Impact, Notched	0.500 J/cm²	2.38 ft-lb/in²	dry; ISO 179 1eA
	0.950 J/cm²	4.52 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)	70.0 °C	158 °F	cond.; ISO 75
	185 °C	365 °F	dry; ISO 75
Vicat Softening Point	195 °C	383 °F	cond.; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	200 °C	392 °F	dry; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	960 °C	1760 °F	PN-EN-60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 93
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 243-1
Comparative Tracking Index	525 V	525 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

Processing Properties	75.0 - 100 °C	167 - 212 °F	
Drying Temperature	Metric	English	Comments
	@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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