

Azoty Tarnow™ Tarnamid® T-27 GF20 FRV2 Polyamide 6 - Flame Retarded, Reinforced

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

Material Notes:

Flame retarded grade, flammability class V2, reinforced with 20% glass fibers, without addition of any halogen compounds, red phosphorus and asbestos, doesn't release any toxic gases during burning. 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-FRV2-Polyamide-6-Flame-Retarded-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ISO 1183

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	225 MPa @Load 36.5 kg	32600 psi @Load 80.5 lb	ISO 2039-1
Tensile Strength	80.0 MPa	11600 psi	ISO 527
Elongation at Break	4.4 %	4.4 %	ISO 527
Tensile Modulus	6.00 GPa	870 ksi	dry; ISO 527
Flexural Strength	135 MPa	19600 psi	ISO 178
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179 1eU
Charpy Impact, Notched	0.240 J/cm ²	1.14 ft-lb/in ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	ISO 75
Vicat Softening Point	200 °C @Load 5.10 kg	392 °F @Load 11.2 lb	ISO 306

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	960 °C @Thickness 2.00 mm	1760 °F @Thickness 0.0787 in	PN-EN-60695-2-12

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+15 ohm	1.00e+15 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 @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

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