

Azoty Tarnow™ Tarnamid® T-27 MX6 Polyamide 6 - Flame Retarded, Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Flame retarded grade, reinforced with 10% hybrid mineral-glass fibers, without addition of any halogen compounds, red phosphorus and asbestos, doesn't release any toxic gases during burning, good surface quality. 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-MX6-Polyamide-6-Flame-Retarded-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4
Melt Flow	45 g/10 min @Load 5.00 kg, Temperature 275 °C	45 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	100 MPa	14500 psi	cond.; ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
	200 MPa	29000 psi	dry; ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
Tensile Strength	45.0 MPa	6530 psi	cond.; ISO 527
	80.0 MPa	11600 psi	dry; ISO 527
Elongation at Break	5.3 %	5.3 %	dry; ISO 527
	30 %	30 %	cond.; ISO 527
Tensile Modulus	2.70 GPa	392 ksi	cond.; ISO 527
	4.60 GPa	667 ksi	dry; ISO 527

Mechanical Properties	Metric	English	Comments
	110 MPa	16000 psi	dry; ISO 178
Charpy Impact Unnotched	7.00 J/cm ²	33.3 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	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179 1eA
	0.600 J/cm ²	2.86 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)	55.0 °C	131 °F	cond.; ISO 75
	65.0 °C	149 °F	dry; ISO 75
Vicat Softening Point	185 °C	365 °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-2	V-2	
	@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
Comparative Tracking Index	600 V	600 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
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

Processing Properties	Metric	English	Comments
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