Azoty Tarnow™ Tarnamid® T-27 GF10 MX10 Polyamide 6 - Flame Retarded, Reinforced

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

Material Notes:

Flame retarded grade, reinforced with 10% 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 hardnessHigh impact strengthHigh vibration damping capacityGood fatigue strengthVery good sliding properties, abrasion resistance, low coefficient of frictionHigh thermal resistance, admissible temperature of continuous operation from -60°C to +150°CHigh chemical resistance, particularly to organic solvents, oils, lubricants and fuelsConsiderable moisture absorption influencing mechanical and electrical propertiesSelf-extinguishing properties (fire retardant properties)Good electro-insulating propertiesGood 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 amendmentsInformation provided by Azoty Tarnow™.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Azoty-Tarnow-Tarnamid-T-27-GF10-MX10-Polyamide-6-Flame-Retarded-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 275 °C	10 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	200 MPa @Load 36.5 kg	29000 psi @Load 80.5 lb	cond.; ISO 2039-1
	370 MPa @Load 36.5 kg	53700 psi @Load 80.5 lb	dry; ISO 2039-1
Tensile Strength	78.0 MPa	11300 psi	cond.; ISO 527
	105 MPa	15200 psi	dry; ISO 527
Elongation at Break	3.0 %	3.0 %	dry; ISO 527
	4.0 %	4.0 %	cond.; ISO 527
Tensile Modulus	6.70 GPa	972 ksi	cond.; ISO 527

Mechanical Properties	Metric	English	Comments
	10.3 GPa	1490 ksi	dry; ISO 527
Flexural Strength	120 MPa	17400 psi	cond.; ISO 178
	170 MPa	24700 psi	dry; ISO 178
Charpy Impact Unnotched	3.00 J/cm²	14.3 ft-lb/in²	dry; ISO 179 1eU
	4.00 J/cm²	19.0 ft-lb/in²	cond.; ISO 179 1eU
Charpy Impact, Notched	0.350 J/cm²	1.67 ft-lb/in²	dry; ISO 179 1eA
	0.400 J/cm²	1.90 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)	130 °C	266 °F	cond.; ISO 75
	160 °C	320 °F	dry; ISO 75
Vicat Softening Point	200 °C @Load 5.10 kg	392 °F @Load 11.2 lb	cond.; ISO 306
	210 °C @Load 5.10 kg	410 °F @Load 11.2 lb	dry; ISO 306
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @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
Dielectric Strength	28.0 kV/mm	711 kV/in	IEC 243-1
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	

Processing Properties	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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