Azoty Tarnow™ Tarnamid® T-27 CFHI Polyamide 6 - Antistatic and Electroconductive

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Carbon Fiber Filled

Material Notes:

Medium viscosity injection molding grade, also used for compounding, for production of monofilament, bristles and fibers.Electroconductive grade based on carbon fiber reinforcement, very high stiffness and strength.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-CFHI-Polyamide-6-Antistatic-and-Electroconductive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	ISO 294-4
Melt Flow	35 g/10 min @Load 5.00 kg, Temperature 275 °C	35 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	90.0 MPa @Load 36.5 kg	13100 psi @Load 80.5 lb	cond.; ISO 2039-1
	120 MPa @Load 36.5 kg	17400 psi @Load 80.5 lb	dry; ISO 2039-1
Tensile Strength	70.0 MPa	10200 psi	cond.; ISO 527
	90.0 MPa	13100 psi	dry; ISO 527
Elongation at Break	6.0 %	6.0 %	dry; ISO 527
	13 %	13 %	cond.; ISO 527
Tensile Modulus	4.00 GPa	580 ksi	cond.; ISO 527

Mechanical Properties	Metric	English	Comments
	5.50 GPa	798 ksi	dry; ISO 527
Flexural Strength	<= 75.0 MPa	<= 10900 psi	cond.; ISO 178
	<= 100 MPa	<= 14500 psi	dry; ISO 178
Charpy Impact Unnotched	8.00 J/cm²	38.1 ft-lb/in²	dry; ISO 179 1eU
	11.0 J/cm²	52.3 ft-lb/in²	cond.; ISO 179 1eU
Charpy Impact, Notched	1.10 J/cm²	5.23 ft-lb/in²	dry; ISO 179 1eA
	1.50 J/cm²	7.14 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)	170 °C	338 °F	dry; ISO 75
	170 °C	338 °F	cond.; ISO 75
Vicat Softening Point	165 °C @Load 5.10 kg	329 °F @Load 11.2 lb	cond.; ISO 306
	180 °C @Load 5.10 kg	356 °F @Load 11.2 lb	dry; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	30 ohm	30 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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