

Azoty Tarnow™ Tarnamid® T-27 MCS V0 Polyamide 6 - Flame Retarded, Unreinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced, Flame Retardant

Material Notes:

Flame retarded (class V0), bromine and red phosphorus free, medium viscosity injection molding grade, also used for compounding, for production of monofilament, bristles and fibers. 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-MCS-V0-Polyamide-6-Flame-Retarded-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 1183
Water Absorption	1.6 % @Time 86400 sec	1.6 % @Time 24.0 hour	ISO 62
Melt Flow	160 g/10 min @Load 5.00 kg, Temperature 275 °C	160 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	80.0 MPa @Load 36.5 kg	11600 psi @Load 80.5 lb	cond.; ISO 2039-1
	150 MPa @Load 36.5 kg	21800 psi @Load 80.5 lb	dry; ISO 2039-1
Tensile Strength	45.0 MPa	6530 psi	cond.; ISO 527
	80.0 MPa	11600 psi	dry; ISO 527
Elongation at Break	20 %	20 %	dry; ISO 527
	200 %	200 %	cond.; ISO 527
Tensile Modulus	1.70 GPa	247 ksi	cond.; ISO 527

Mechanical Properties	3.70 GPa Metric	537 ksi English	dry: ISO 527 Comments
Flexural Strength	35.0 MPa	5080 psi	cond.; ISO 178
	95.0 MPa	13800 psi	dry; ISO 178
Charpy Impact Unnotched	8.00 J/cm²	38.1 ft-lb/in²	dry; ISO 179 1eU
	NB	NB	cond.; ISO 179 1eU
Charpy Impact, Notched	0.300 J/cm²	1.43 ft-lb/in²	dry; ISO 179 1eA
	1.00 J/cm²	4.76 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)	60.0 °C	140 °F	cond.; ISO 75
	65.0 °C	149 °F	dry; ISO 75
Vicat Softening Point	185 °C @Load 5.10 kg	365 °F @Load 11.2 lb	cond.; ISO 306
	200 °C @Load 5.10 kg	392 °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
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	cond.; IEC 93
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	dry; IEC 93
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	cond.; IEC 93
	1.00e+15 ohm	1.00e+15 ohm	dry; IEC 93
Dielectric Strength	24.0 kV/mm	610 kV/in	cond.; IEC 243-1
	30.0 kV/mm	762 kV/in	dry; 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 @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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