

Azoty Tarnow™ Tarnamid® T-27 MCS HI Polyamide 6 - Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Very high impact resistance, cold impact grade (to -40°C). 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-HI-Polyamide-6-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ISO 1183
Water Absorption	1.3 %	1.3 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.021 cm/cm	0.021 in/in	ISO 294-4
Melt Flow	60 g/10 min	60 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 275 °C	@Load 11.0 lb, Temperature 527 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	90.0 MPa	13100 psi	ISO 2039-1
	@Load 36.5 kg	@Load 80.5 lb	
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527
Elongation at Break	120 %	120 %	ISO 527
Tensile Modulus	0.700 GPa	102 ksi	cond.; ISO 527
	1.80 GPa	261 ksi	dry; ISO 527
Flexural Strength	16.0 MPa	2320 psi	cond.; ISO 178
	55.0 MPa	7980 psi	dry; ISO 178

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	5.00 J/cm ²	23.8 ft-lb/in ²	dry; ISO 179 1eA
	NB	NB	cond.; ISO 179 1eA

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	cond.; ISO 75
	54.0 °C	129 °F	dry; ISO 75
Vicat Softening Point	135 °C @Load 5.10 kg	275 °F @Load 11.2 lb	ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	cond.; IEC 93
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	dry; IEC 93
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	cond.; IEC 93
	1.00e+15 ohm	1.00e+15 ohm	dry; IEC 93
Dielectric Strength	30.0 kV/mm	762 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 @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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China