

Tarnamid® T-27 MHS

Polyamide 6

Grupa Azoty S.A.

Message:

Tarnamid®T-27 MHS is a polyamide 6 (nylon 6) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.

Tarnamid®The main features of T-27 MHS are:

- flame retardant/rated flame
- chemical resistance
- Flame Retardant
- high hardness
- Hard

General Information				
Additive		heat stabilizer		
Features	Low friction coefficient			
	Optical			
	Shock absorption			
	Solvent resistance			
	Impact resistance, high			
	Good strength			
	Good wear resistance			
	Good chemical resistance			
	alkali resistance			
	Fatigue resistance			
	Heat resistance, high			
	acid resistance			
	Thermal Stability			
	Compliance of Food Exposure			
	High hardness			
	Medium hardness			
Flame retardancy				
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/5.0 kg)	100	--	g/10 min	ISO 1133
Molding Shrinkage	1.6	1.8	%	ISO 294-4
Water Absorption (23°C, 24 hr)	1.8	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method

Ball Indentation Hardness (H 358/30)	150	75.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2800	1100	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	45.0	MPa	ISO 527-2
Tensile Strain (Break)	70	200	%	ISO 527-2
Flexural Stress	85.0	23.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.0 kJ/m ²	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	--		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	57.0	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	200	--	°C	ISO 306/B50
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Dielectric Strength	30	--	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	V-2	--		UL 94
Additional Information				

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Glow Wire Resistance, PN-EN-60695-2-1, 2mm: 750Note: All electrical properties were tested in accordance with the IEC test standard.Comparative Track Index, IEC 112, Solution A: 600

Injection	Dry	Unit	
Drying Temperature	80.0 - 100		°C
Drying Time	2.0 - 4.0		hr
Suggested Max Moisture	0.20		%
Processing (Melt) Temp	230 - 260		°C
Mold Temperature	60.0 - 80.0		°C
Injection Pressure	80.0 - 130		MPa
Injection Rate	Fast		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

