

Tarnamid® T-27

Polyamide 6

Grupa Azoty S.A.

Message:

Medium viscosity polyamide 6 grade, without any additives.

General Information				
Features		Additive Free		
		Food Contact Acceptable		
		Medium Viscosity		
Uses		Compounding		
		Fibers		
		Monofilaments		
Agency Ratings		EU 2002/72/EC		
Appearance		Natural Color		
Processing Method		Compounding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	120	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	1.4	--	%	
Flow : 2.00 mm	1.4	--	%	
Water Absorption				ISO 62
Saturation, 23°C	9.5	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Viscosity Number	150	--	cm ³ /g	ISO 307
Relative Viscosity - H2SO4 (25°C)	2.70	--		
Limit of Temperature - a few hours operation	< 180	--	°C	
Temperature Index				
20000 hr	70	--	°C	
5000 hr	85	--	°C	
Burning Rate	+	--		FMVSS 302
ISO Type	PA6, MN, 14-030	--		ISO 1874
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	140	60.0	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2800	1100	MPa	ISO 527-2/1
Tensile Stress (Yield)	78.0	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 50	> 250	%	ISO 527-2/50
Flexural Modulus ¹	2400	900	MPa	ISO 178
Flexural Stress ²	82.0	28.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
--	5.0	12	kJ/m ²	
-30°C	3.0	3.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
--	No Break	No Break		
-30°C	No Break	No Break		
Notched Izod Impact Strength	4.0	10	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	60.0	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	195	180	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	1.1E-4	--	cm/cm/°C	
Transverse : 23 to 55°C	1.2E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+16	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+13	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	21	24	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	3.50	4.20		IEC 60250
Dissipation Factor (1 Hz)	0.022	0.20		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	V-2	--		UL 94
Glow Wire Flammability Index (2.00 mm)	750	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	< 80.0		°C	
Suggested Max Moisture	< 0.10		%	
Suggested Max Regrind	10		%	
Processing (Melt) Temp	230 to 270		°C	
Mold Temperature	60.0 to 80.0		°C	

Injection Pressure	80.0 to 110	MPa
Injection Rate	Fast	
NOTE		
1.	2.0 mm/min	
2.	2.0 mm/min	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

