

Tarnamid® T-27 GF 25

Polyamide 6

Grupa Azoty S.A.

Message:

It is 25% glass fibre reinforced polyamide 6 compound, heat stabilised.

General Information				
UL YellowCard		E337949-101091680		
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Uses		Appliances		
		Automotive Applications		
		Electrical/Electronic Applications		
		Household Goods		
Appearance		Black		
		Colors Available		
		Natural Color		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.30	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	45.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	1.0	--	%	
Flow : 2.00 mm	0.40	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.3	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	210	130	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8000	5500	MPa	ISO 527-2/1
Tensile Stress (Yield)	160	100	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	8.0	%	ISO 527-2/5
Flexural Modulus ¹	7000	4000	MPa	ISO 178
Flexural Stress ²	220	150	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
--	10	18	kJ/m ²	
-30°C	6.0	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
--	80	100	kJ/m ²	
-30°C	60	--	kJ/m ²	
Notched Izod Impact Strength	11	18	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	195	°C	ISO 75-2/A
Vicat Softening Temperature	210	200	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	2.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	1.2E-4	--	cm/cm/°C	
Limit of Temperature - a few hours operation	< 200	--	°C	
Temperature Index				
20000 hr	110	--	°C	
5000 hr	120	--	°C	
Burning Rate	+	--		FMVSS 302
ISO Type	PA6, MHR, 14-080, GF25	--		ISO 1874
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+16	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+13	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	31	27	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	3.70	4.70		IEC 60250
Dissipation Factor (1 Hz)	0.016	0.13		IEC 60250
Comparative Tracking Index (Solution A)	525	525	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	650	--	°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	240 to 260		°C	

Mold Temperature	80.0 to 100	°C
Injection Pressure	80.0 to 110	MPa
Injection Rate	Moderate	

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



WECHAT