

Tarnamid® T- 27 GF15 FRV0

Polyamide 6

Grupa Azoty S.A.

Message:

15% glass reinforced, heat stabilised, flame retardant

General Information				
Filler / Reinforcement		Glass Fiber, 15% Filler by Weight		
Additive		Flame Retardant		
		Heat Stabilizer		
Features		Flame Retardant		
		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	1.26	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	30.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	1.2	--	%	
Flow : 2.00 mm	0.40	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	220	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7000	4300	MPa	ISO 527-2/1
Tensile Stress (Yield)	120	70.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	6.0	%	ISO 527-2/5
Flexural Modulus ¹	5600	2900	MPa	ISO 178
Flexural Stress ²	140	80.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength	5.0	9.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	30	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	5.0	10	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	185	170	°C	ISO 75-2/A
Vicat Softening Temperature	200	195	°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	1.1E-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, MFHR, 14-060, GF15	--		ISO 1874
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	--	ohms	IEC 60093
Volume Resistivity	1.0E+12	--	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	20	--	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	4.40	--		IEC 60250
Dissipation Factor (1 Hz)	0.088	--		IEC 60250
Comparative Tracking Index (Solution A)	525	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	V-0	--		
3.20 mm	V-0	--		
Glow Wire Flammability Index (2.00 mm)	960	--	°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 280		°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

