

Tarnamid® T- 27 MCS V0

Polyamide 6

Grupa Azoty S.A.

Message:

It is flame retarded polyamide 6 compound, halogen and phosphorous free, good electrical properties.

General Information				
Additive		Flame Retardant		
Features	Flame Retardant			
	Good Electrical Properties			
	Halogen Free			
	Low (to None) Phosphorus Content			
Uses	Appliances			
	Automotive Applications			
	Electrical/Electronic Applications			
	Household Goods			
Appearance	Black			
	Green			
	Grey			
	Red			
	White			
	Yellow			
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	160	--	cm³/10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	1.6	--	%	ISO 62
Flow : 2.00 mm	1.5	--	%	
Water Absorption				ISO 62
Saturation, 23°C	9.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	150	60.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	3700	1400	MPa	ISO 527-2/1
Tensile Stress (Yield)	80.0	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	20	> 100	%	ISO 527-2/50
Flexural Modulus ¹	3200	1200	MPa	ISO 178
Flexural Stress ²	95.0	30.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.0	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	80 kJ/m ²	No Break		ISO 179/1eU
Notched Izod Impact Strength	3.0	8.0	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	8.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	1.0E-4	--	cm/cm/°C	
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, MFR, 14-040	--		ISO 1874
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)	30	24	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	3.50	4.20		IEC 60250
Dissipation Factor (1 Hz)	0.020	0.10		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-0	--		
1.60 mm	V-0	--		
3.20 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.00 mm	960	--	°C	

2.00 mm	960	--	°C
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

