

Tarnamid® T- 27 MCS 850

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		
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	1.15	--	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	1.8	--	%	
Flow : 2.00 mm	1.6	--	%	
Water Absorption				ISO 62
Saturation, 23°C	9.5	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	150	70.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3600	1600	MPa	ISO 527-2/1
Tensile Stress (Yield)	80.0	45.0	MPa	ISO 527-2/50

Tensile Strain (Break)	10	> 100	%	ISO 527-2/50
Flexural Modulus ¹	3000	1300	MPa	ISO 178
Flexural Stress ²	90.0	35.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	80	--	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	4.0	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	200	185	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	9.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	1.1E-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, 14-030	--		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)	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				UL 94
1.60 mm	V-2	--		
3.20 mm	V-2	--		
Glow Wire Flammability Index (2.00 mm)	850	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	60.0 to 80.0		°C	
Drying Time	2.0 to 4.0		hr	
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	

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