

Tarnamid® T- 27 MT 15

Polyamide 6

Grupa Azoty S.A.

Message:

It is 15% mineral reinforced polyamide 6 compound, heat stabilised.

General Information				
Filler / Reinforcement		Mineral, 15% 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	1.24	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	70.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	1.0	--	%	
Flow : 2.00 mm	0.90	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	60.0	90.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5000	3500	MPa	ISO 527-2/1
Tensile Stress (Yield)	75.0	50.0	MPa	ISO 527-2/5
Tensile Strain (Break)	7.0	> 10	%	ISO 527-2/5
Flexural Modulus ¹	4200	2000	MPa	ISO 178
Flexural Stress ²	105	50.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
--	3.5	4.0	kJ/m ²	
-30°C	3.0	3.0	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
--	65	75	kJ/m ²	
-30°C	60	60	kJ/m ²	
Notched Izod Impact Strength				ISO 180
	5.0	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)				ISO 75-2/A
	90.0	75.0	°C	
Vicat Softening Temperature				ISO 306/B
	215	190	°C	
Melting Temperature				ISO 11357-3
	221	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity				IEC 60093
	1.0E+13	--	ohms	
Volume Resistivity				IEC 60093
	1.0E+13	--	ohms·cm	
Electric Strength (2.00 mm)				IEC 60243-1
	24	--	kV/mm	
Dielectric Constant (1 Hz)				IEC 60250
	3.90	--		
Dissipation Factor (1 Hz)				IEC 60250
	0.070	--		
Comparative Tracking Index (Solution A)				IEC 60112
	600	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)				UL 94
	HB	--		
Glow Wire Flammability Index (2.00 mm)				IEC 60695-2-12
	650	--	°C	
Burning Rate				FMVSS 302
	+	--		
ISO Type				ISO 1874
	PA6, MHR, 14-050, MD15	--		
Injection	Dry	Unit		
Drying Temperature				°C
	< 80.0			
Suggested Max Moisture				%
	< 0.10			
Suggested Max Regrind				%
	10			
Processing (Melt) Temp				°C
	240 to 260			
Mold Temperature				°C
	80.0 to 100			
Injection Pressure				MPa
	80.0 to 110			
Injection Rate				
	Moderate			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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