

Tarnamid® T-27 GF 15AT

Polyamide 6

Grupa Azoty S.A.

Message:

It is reinforced polyamide 6 compound, heat stabilised.

General Information				
Additive	Heat Stabilizer			
Features	Heat Stabilized			
Uses	Appliances			
	Automotive Applications			
	Electrical/Electronic Applications			
	Household Goods			
Appearance	Black			
	Grey			
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	45.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (2.00 mm)	0.50	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.0	--	%	ISO 62
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	7600	--	MPa	ISO 527-2/1
Tensile Stress (Yield)	105	--	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	--	%	ISO 527-2/5
Flexural Modulus ¹	6000	--	MPa	ISO 178
Flexural Stress ²	150	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.5	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	35	--	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	3.5	--	kJ/m ²	ISO 180

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	190	--	°C	ISO 75-2/A
Vicat Softening Temperature	205	--	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
Limit of Temperature - a few hours operation	180	--	°C	
Temperature Index				
20000 hr	110	--	°C	
5000 hr	120	--	°C	
Burning Rate	+	--		FMVSS 302
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	4.2E+15	6.2E+11	ohms	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	HB	--		UL 94
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			

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