

Tarnamid® T- 27 MT 40

Polyamide 6

Grupa Azoty S.A.

Message:

It is 40% mineral reinforced polyamide 6 compound, heat stabilised.

General Information				
Filler / Reinforcement		Mineral,40% 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	1.46	--	g/cm ³	ISO 1183
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)	200	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8200	--	MPa	ISO 527-2/1
Tensile Stress (Yield)	75.0	--	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	--	%	ISO 527-2/5
Flexural Modulus ¹	7500	--	MPa	ISO 178
Flexural Stress ²	120	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	35	--	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	3.0	--	kJ/m ²	ISO 180

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	205	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	150	--	°C	ISO 75-2/A
Vicat Softening Temperature	205	--	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	4.2E+15	6.2E+15	ohms	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	HB	--		UL 94
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA6, MHR, 14-070, MD40	--		ISO 1874
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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