

Tarnamid® T- 27 MW 30

Polyamide 6

Grupa Azoty S.A.

Message:

It is 30% mineral reinforced polyamide 6 compound, heat stabilised.

General Information				
Filler / Reinforcement		Mineral,30% 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	1.35	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	80.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	1.0	--	%	
Flow : 2.00 mm	0.50	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.2	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	200	120	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	5400	MPa	ISO 527-2/1
Tensile Stress (Yield)	90.0	55.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	6.0	%	ISO 527-2/5
Flexural Modulus ¹	7500	4500	MPa	ISO 178
Flexural Stress ²	150	90.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
--	7.0	9.0	kJ/m ²	
-30°C	6.0	6.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
--	60	80	kJ/m ²	
-30°C	55	60	kJ/m ²	
Notched Izod Impact Strength				ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	120	110	°C	ISO 75-2/A
Vicat Softening Temperature	200	195	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	--	ohms	IEC 60093
Volume Resistivity	1.0E+13	--	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	32	--	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	3.90	--		IEC 60250
Dissipation Factor (1 Hz)	0.037	--		IEC 60250
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	650	--	°C	IEC 60695-2-12
Burning Rate	+	--		FMVSS 302
ISO Type	PA6, MHR, 14-040, MD30	--		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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