

Tarnamid® T- 27 GF10 MX6

Polyamide 6

Grupa Azoty S.A.

Message:

It is polyamide 6 containing 10% glass fibre and 30% mineral reinforced, release agent and stabilisation's system, flame retardant.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
	Mineral,30% Filler by Weight		
Additive	Flame Retardant		
	Mold Release		
	Processing Stabilizer		
Features	Flame Retardant		
Uses	Appliances		
	Automotive Applications		
	Electrical/Electronic Applications		
	Household Goods		
Appearance	Black		
	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	35.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow : 2.00 mm	0.80	%	
Flow : 2.00 mm	0.40	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	220	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ISO 527-2/1
Tensile Stress (Yield)	95.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus ¹	6000	MPa	ISO 178
Flexural Stress ²	140	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	40	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	3.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	180	°C	ISO 75-2/A
Vicat Softening Temperature	200	°C	ISO 306/B
Melting Temperature	221	°C	ISO 11357-3
Limit of Temperature - a few hours operation	< 200	°C	
Temperature Index			
20000 hr	110	°C	
5000 hr	120	°C	
Burning Rate	+		FMVSS 302
ISO Type	PA6, MFHR, 14-070, GF10MD30		ISO 1874
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+12	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	28	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	4.20		IEC 60250
Dissipation Factor (1 Hz)	0.027		IEC 60250
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	V-2		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Suggested Max Moisture	< 0.10	%	
Suggested Max Regrind	10	%	
Processing (Melt) Temp	240 to 280	°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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