

Tarnamid® T- 27 GF10 MX10

Polyamide 6

Grupa Azoty S.A.

Message:

It is polyamide 6 containing 10% glass fibre and 50% mineral reinforced, release agent and stabilisation's system, flame retardant.

General Information				
Filler / Reinforcement		Glass Fiber,10% Filler by Weight Mineral,50% 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	Dry	Conditioned	Unit	Test Method
Density	1.62	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	10.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	0.80	--	%	
Flow : 2.00 mm	0.40	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	370	200	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10300	6700	MPa	ISO 527-2/1
Tensile Stress (Yield)	105	78.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	4.0	%	ISO 527-2/5
Flexural Modulus ¹	9700	6200	MPa	ISO 178
Flexural Stress ²	170	120	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.5	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	30	40	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	3.5	4.0	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	180	160	°C	ISO 75-2/A
Vicat Softening Temperature	210	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	
ISO Type	PA6, MFHR, 14-070, GF10MD50-			ISO 1874
Electrical	Dry	Conditioned	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	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	V-0	--		UL 94
Glow Wire Flammability Index (2.00 mm)	960	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	< 80.0		°C	
Suggested Max Moisture	< 0.10		%	
Suggested Max Re grind	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

