Tarnamid® T-27 GF 10

Polyamide 6

Grupa Azoty S.A.

Message:

It is 10% glass fibre reinforced polyamide 6 compound, heat stabilised.

General Information				
Filler / Reinforcement	Glass Fiber,10% 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	1.19	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	60.0	--	cm³/10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	1.2	--	%	
Flow : 2.00 mm	0.80	--	%	
Water Absorption				ISO 62
Saturation, 23°C	9.0	--	%	
Equilibrium, 23°C, 50% RH	2.7	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	180	90.0	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	4500	2500	MPa	ISO 527-2/1
Tensile Stress (Yield)	100	60.0	MPa	ISO 527-2/5
Tensile Strain (Break)	5.0	20	%	ISO 527-2/5
Flexural Modulus [1]	3900	2200	MPa	ISO 178
Flexural Stress [2]	130	75.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**

Charpy Notched Impact Strength	4.0	9.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	45	130	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength	5.0	8.0	kJ/m²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	170	165	°C	ISO 75-2/A
Vicat Softening Temperature	200	190	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	2.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	1.2E-4	--	cm/cm/°C	
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, MHR, 14-040, GF10	--		ISO 1874
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+16	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+13	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	31	27	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	3.70	4.70		IEC 60250
Dissipation Factor (1 Hz)	0.016	0.13		IEC 60250
Comparative Tracking Index (Solution A)	525	525	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
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

Recommended distributors for this material

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