Tarnamid® T- 27 MT 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/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	0.70	--	%	
Flow : 2.00 mm	0.30	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	160	105	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	7000	4400	MPa	ISO 527-2/1
Tensile Stress (Yield)	75.0	50.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	4.0	%	ISO 527-2/5
Flexural Modulus [1]	5900	3300	MPa	ISO 178
Flexural Stress [2]	115	65.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
--	3.0	3.5	kJ/m²	
-30°C	3.0	3.0	kJ/m²	

Charpy Unnotched Impact Strength				ISO 179/1eU
--	45	50	kJ/m²	
-30°C	40	40	kJ/m²	
Notched Izod Impact Strength	5.0	--	kJ/m²	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	120	100	°C	ISO 75-2/A
Vicat Softening Temperature	200	190	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity	1.0E+13	--	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	24	--	kV/mm	IEC 60243-1
Dielectric Constant (1 Hz)	3.90	--		IEC 60250
Dissipation Factor	0.070	--		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, 4-070, 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			

Recommended distributors for this material

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