Tarnamid® T-27 GF 15

Polyamide 6

Grupa Azoty S.A.

Message:

It is 15% glass fibre reinforced polyamide 6 compound, heat stabilised.

General Information		
UL YellowCard	E337949-100845704	E337949-101091680
Filler / Reinforcement	Glass Fiber,15% 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	1.22	--	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	0.40	--	%	
Water Absorption				ISO 62
Saturation, 23°C	8.3	--	%	
Equilibrium, 23°C, 50% RH	2.7	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	185	130	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5700	3500	MPa	ISO 527-2/1
Tensile Stress (Yield)	130	70.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	14	%	ISO 527-2/5
Flexural Modulus [1]	5000	4000	MPa	ISO 178
Flexural Stress [2]	180	110	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
--	6.0	15	kJ/m²	
-30°C	5.0	--	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
--	50	100	kJ/m²	
-30°C	45	--	kJ/m²	
Notched Izod Impact Strength	7.0	18	kJ/m²	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	195	190	°C	ISO 75-2/A
Vicat Softening Temperature	215	200	°C	ISO 306/B
Melting Temperature	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	3.0E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	1.3E-4	--	cm/cm/°C	
Limit of Temperature - a few hours operation	180	--	°C	
Temperature Index				
20000 hr	110	--	°C	
5000 hr	120	--	°C	
Burning Rate	+	--		FMVSS 302
ISO Type	PA6, MHR, 14-140, GF15	--		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)	550	--	°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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