

Tarnamid® T-27 GF30 V2

Polyamide 6

Grupa Azoty S.A.

Message:

Tarnamid® T-27 GF30 V2 is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Tarnamid® T-27 GF30 V2 are:

Flame Rated

Chemical Resistant

Fatigue Resistant

Flame Retardant

Food Contact Acceptable

Typical applications include:

Automotive

Engineering/Industrial Parts

Construction Applications

Electrical/Electronic Applications

Fabrics/Fibers

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Features	Acid Resistant
	Base Resistant
	Fatigue Resistant
	Flame Retardant
	Food Contact Acceptable
	Good Abrasion Resistance
	Good Chemical Resistance
	Good Strength
	High Hardness
	High Heat Resistance
	High Impact Resistance
	Low Friction
	Medium Rigidity
	Opticals
	Solvent Resistant
	Vibration Damping
Uses	Automotive Electronics
	Automotive Exterior Parts
	Automotive Interior Parts
	Automotive Under the Hood
	Connectors
	Food Packaging

Furniture

Household Goods

Machine/Mechanical Parts

Monofilaments

Profiles

Reinforced Panels

Rods

Safety Helmets

Sporting Goods

Tubing

Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/5.0 kg)	35	--	g/10 min	ISO 1133
Molding Shrinkage	0.20	1.1	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.80	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	230	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	--	MPa	ISO 527-2
Tensile Stress (Yield)	140	--	MPa	ISO 527-2
Tensile Strain (Break)	4.0	--	%	ISO 527-2
Flexural Modulus	8000	--	MPa	ISO 178
Flexural Stress (3.5% Strain)	200	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	10	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	70	--	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	12	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	--	°C	ISO 75-2/A
Vicat Softening Temperature	210	--	°C	ISO 306/B50
Flammability	Dry	Conditioned	Test Method	
Flame Rating (3.20 mm)	V-2	--	UL 94	
Injection	Dry	Unit		

Drying Temperature	80.0 to 100	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	250 to 290	°C
Mold Temperature	80.0 to 120	°C
Injection Pressure	80.0 to 130	MPa
Injection Rate	Moderate	

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