

Tarnamid® T-27 GF30 I

PA6-GF30

Grupa Azoty S.A.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	30 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	8500 / 5900	MPa	ISO 527
Tensile Strength	150 / 105	MPa	ISO 527
Strain at break	4 / 9.5	%	ISO 527
Flexural modulus, 23°C	7500 / 5700	MPa	ISO 178
Charpy impact strength, +23°C	100 / 120	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	100 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	20 / 30	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	15 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	22 / 32	kJ/m ²	ISO 180/1A
Ball indentation hardness	160 / 120	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	221 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	200 / *	°C	ISO 75-1/-2
Vicat softening temperature, B	210 / *	°C	ISO 306
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.7 / 4.7	-	IEC 62631-2-1
Dissipation factor, 1MHz	160 / 1300	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E11	Ohm	IEC 62631-3-2
Electric strength	31 / 27	kV/mm	IEC 60243-1
Comparative tracking index	525 / 525	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1320 / -	kg/m ³	ISO 1183

Characteristics**Processing**

Injection Molding

Delivery form

Granules, Black, Natural Color

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Applications

Automotive, Building Construction, Electrical and Electronical

Regional Availability

Europe