

Tarnamid® T-27 GF30

PA6-GF30

Grupa Azoty S.A.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	45 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	9500 / 5700	MPa	ISO 527
Tensile Strength	175 / 110	MPa	ISO 527
Strain at break	4 / 7	%	ISO 527
Flexural modulus, 23°C	8500 / 4500	MPa	ISO 178
Charpy impact strength, +23°C	90 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	60 / 60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	13 / 20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	8 / 8.5	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	15 / 24	kJ/m ²	ISO 180/1A
Ball indentation hardness	220 / 130	MPa	ISO 2039-1
Thermal properties			
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	215 / *	°C	ISO 306
Coeff. of linear therm. expansion, parallel	10 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110 / *	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	-
Electrical properties			
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	33 / 29	kV/mm	IEC 60243-1
Comparative tracking index	525 / 525	-	IEC 60112
Other properties			
Water absorption	6.3 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1350 / -	kg/m ³	ISO 1183

Characteristics**Processing**

Injection Molding

Delivery form

Granules, Black, Natural Color

Special Characteristics

Heat stabilized or stable to heat

Applications

Automotive, Building Construction, Electrical and Electronical

Regional Availability

Europe