

**Tarnamid® T-27 GF15 I**

PA6-GF15

Grupa Azoty S.A.

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	45 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	5500 / 3000	MPa	ISO 527
Tensile Strength	100 / 75	MPa	ISO 527
Strain at break	5 / 8	%	ISO 527
Flexural modulus, 23°C	4500 / -	MPa	ISO 178
Charpy impact strength, +23°C	75 / 85	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	65 / 75	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	15 / 20	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	8 / 8	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	17 / -	kJ/m <sup>2</sup>	ISO 180/1A
Ball indentation hardness	160 / 80	MPa	ISO 2039-1

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	221 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	190 / *	°C	ISO 75-1/-2
Vicat softening temperature, B	200 / *	°C	ISO 306
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	-

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
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	22 / 27	kV/mm	IEC 60243-1
Comparative tracking index	600 / 525	-	IEC 60112

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1200 / -	kg/m <sup>3</sup>	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