

**Tarnamid® T-29 MS**

PA6

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	120 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	1.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	3100 / 1500	MPa	ISO 527
Yield stress	82 / 45	MPa	ISO 527
Strain at break	40 / >50	%	ISO 527
Flexural modulus, 23°C	2300 / 1100	MPa	ISO 178
Charpy impact strength, +23°C	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	N / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	5.5 / 13	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	3 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	5 / 13	kJ/m <sup>2</sup>	ISO 180/1A
Ball indentation hardness	165 / 75	MPa	ISO 2039-1
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	221 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	60 / *	°C	ISO 75-1/-2
Vicat softening temperature, B	195 / *	°C	ISO 306
Coeff. of linear therm. expansion, parallel	110 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	120 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Burning behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	-
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 1MHz	3.5 / 4.2	-	IEC 62631-2-1
Dissipation factor, 1MHz	220 / 2000	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric strength	21 / 24	kV/mm	IEC 60243-1
Comparative tracking index	600 / 600	-	IEC 60112
<b>Other properties</b>			
Water absorption	9.5 / *	%	Sim. to ISO 62
Humidity absorption	3 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m <sup>3</sup>	ISO 1183

**Characteristics****Processing**

Injection Molding

**Delivery form**

Granules, Natural Color

**Additives**

Release agent

**Applications**

Automotive, Building Construction, Electrical and Electronical, General Purpose

**Regional Availability**

Europe