

**Tarnamid® T-27 GF40 FRV0**

PA6-GF40

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	35 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.1 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	14000 / 8200	MPa	ISO 527
Tensile Strength	165 / 105	MPa	ISO 527
Strain at break	4 / 5.5	%	ISO 527
Flexural modulus, 23°C	12000 / 5800	MPa	ISO 178
Charpy impact strength, +23°C	70 / 80	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	52 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	8 / 12	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	10 / 14	kJ/m <sup>2</sup>	ISO 180/1A
Ball indentation hardness	240 / 150	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	200 / *	°C	ISO 75-1/-2
Vicat softening temperature, B	205 / *	°C	ISO 306
Coeff. of linear therm. expansion, parallel	10 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	100 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	-
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 1MHz	4.4 / -	-	IEC 62631-2-1
Dissipation factor, 1MHz	880 / -	E-4	IEC 62631-2-1
Volume resistivity	1E9 / -	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E11	Ohm	IEC 62631-3-2
Electric strength	20 / -	kV/mm	IEC 60243-1
Comparative tracking index	525 / -	-	IEC 60112
<b>Other properties</b>			
Density	1500 / -	kg/m <sup>3</sup>	ISO 1183

**Characteristics****Processing**

Injection Molding

**Delivery form**

Granules, Black, Natural Color

**Special Characteristics**

Flame retardant, Heat stabilized or stable to heat

**Applications**

Automotive, Building Construction, Electrical and Electronical

**Regional Availability**

Europe