Tarnamid® T-27 GF45

PA6-GF45 — Grupa Azoty S.A.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**20 / ***	cm³/10min	ISO 1133
Temperature	**275 / ***	°C	-
Load	**5 / ***	kg	-
Molding shrinkage, parallel	**0.4 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.0 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**14500 / -**	MPa	ISO 527
Tensile Strength	**210 / -**	MPa	ISO 527
Strain at break	**5 / -**	%	ISO 527
Flexural modulus, 23°C	**11500 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**95 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**15 / -**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**22 / -**	kJ/m²	ISO 180/1A
Ball indentation hardness	**290 / -**	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	**210 / ***	°C	ISO 75-1/-2
Vicat softening temperature, B	**215 / ***	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**20 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**100 / ***	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	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	**5 / ***	%	Sim. to ISO 62
Humidity absorption	**1.5 / ***	%	Sim. to ISO 62
Density	**1500 / -**	kg/m³	ISO 1183

Characteristics

Processing
Injection Molding

Applications
Automotive, Building Construction, Electrical and Electronical

Delivery form
Granules, Black, Natural Color

Regional Availability
Europe

Special Characteristics
Heat stabilized or stable to heat