TECHNOLOGIC SOLUTIONS



PA6 G [OMNIAMID G]

GENERAL

	1,15 g/cm ³	ISO 1183	DIN 53479
	2,4 %	ISO 62	DIN 53715
	7,0 %	ISO 62	DIN 53495
	58 (85) N/mm ²	ISO 527	DIN53455
	100 (20) %	ISO 527	DIN53455
	1900 (3400)N/mm ²	ISO 527	DIN53455
	7 (20) N/mm ²	ISO 899	DIN53444
	no break	ISO R179	DIN53453
	23 (5) KJ/ mm ²	ISO179/3C	DIN53453
	100 (165) N/mm ²	ISO2039.1	DIN53456
	M88	ISO2039.2	DIN53456
	0,42	ISO 8295	DIN 53375
	220 °C	ISO 3146	
	0,28 W/(km)	ISO 22007.2	DIN 52612
	96 °C	ISO75	DIN 53461
	80 x 10 ⁻⁶ K ⁻¹	ISO 11359	DIN 53752
	100 °C		
load ^[18]	160 °C		
	-30 °C		
	НВ		UL94
	25 %	ISO4589	DIN 22117
	o load[18]	2,4 % 7,0 % 58 (85) N/mm² 100 (20) % 1900 (3400)N/mm² 7 (20) N/mm² no break 23 (5) KJ/ mm² 100 (165) N/mm² M88 0,42 220 °C 0,28 W/(km) 96 °C 80 x 10 °C 100 °C 160 °C -30 °C HB	2,4 % ISO 62 7,0 % ISO 62 58 (85) N/mm² ISO 527 100 (20) % ISO 527 1900 (3400)N/mm² ISO 527 7 (20) N/mm² ISO 899 no break ISO R179 23 (5) KJ/ mm² ISO179/3C 100 (165) N/mm² ISO2039.1 M88 ISO2039.2 0,42 ISO 8295 220 °C ISO 3146 0,28 W/(km) ISO 22007.2 96 °C ISO75 80 x 10 ° K-1 ISO 11359 100 °C 100 add[18] 160 °C -30 °C HB



ELECTRICAL PROPERTIES

Dielectric constant at 1 MHz.	7 (3,7)	ISO 250	DIN 53483
Dielectric strength	30 KV/mm	ISO 243	DIN 53481
Volume resistivity	10 ¹² 'Ωcm	ISO 93	DIN 53482
Dissipation factor	0,05	ISO 250	DIN 53483

N.B.

- Figures relate to specimen conditioned at 23°C and 50% RH. Figures between brackets relate to dry specimen. Figures for materials marked with * can change according to their moisture content.
- Figures refer to un-coloured specimen either injection moulded or machined in the easiest way. Tests made on specimen of different sizes give slightly different results.
- [12] Test on ground steel dry specimen load =0,05 N/mm² speed=0,6 m/s.
- [15] Deformation at temperature. HDT at 1,8 N/mm²
- [17] Operating temperature continuously 5000h From 23°C upwards the materials' features change in an non-uniform and disproportional way due to the heat. The quoted limits are indicative and based on a tensile stress of 50% of the value at 23°C.
- [18] Operating temperature short period (no load)
- [19] The mechanical features decrease with a reduction in temperature and are influenced also by other factors (moisture, etc.). The quoted value does not take into consideration impact conditions or heavy loads.
- A Amorphous
- All values and information provided are based on information currently in our possession and/or results archived from tests conducted in our laboratories. They are given in good faith and are not legally binding. For any particular application, the technical staff of Omnia Plastica spa is at your disposal to assist with solving your problem.