TECHNOLOGIC SOLUTIONS

PE 300	

0,955 g/cm³	ISO 1183	DIN 53479
0 %	ISO 62	DIN 53715
0,02 %	ISO 62	DIN 53495
30 N/mm ²	ISO 527	DIN53455
500 %	ISO 527	DIN53455
800 N/mm ²	ISO 527	DIN53455
3 N/mm ²	ISO 899	DIN53444
no break	ISO R179	DIN53453
12 KJ/ mm ²	ISO179/3C	DIN53453
40 N/mm ²	ISO2039.1	DIN53456
D63	ISO2039.2	DIN53456
0,32	ISO 8295	DIN 53375
130 °C	ISO 3146	
0,39 W/(km)	ISO 22007.2	DIN 52612
45 °C	ISO75	DIN 53461
180 x 10 ⁻⁶ K ⁻¹	ISO 11359	DIN 53752
80 °C		
90 °C		
-50 °C		
НВ		UL94
	0 % 0,02 % 30 N/mm² 500 % 800 N/mm² 3 N/mm² no break 12 KJ/ mm² 40 N/mm² D63 0,32 130 °C 0,39 W/(km) 45 °C 180 x 10-6 K-1 80 °C 90 °C -50 °C	0 % ISO 62 0,02 % ISO 62 30 N/mm² ISO 527 500 % ISO 527 800 N/mm² ISO 527 3 N/mm² ISO 899 no break ISO R179 12 KJ/ mm² ISO2039.1 D63 ISO2039.2 0,32 ISO 8295 130 °C ISO 3146 0,39 W/(km) ISO 22007.2 45 °C ISO75 180 x 10-6 K-1 ISO 11359 80 °C 90 °C -50 °C

TECHNOLOGIC SOLUTIONS

ELECTRICAL PROPERTIES

Dielectric constant at 1 MHz.	2,3	ISO 250	DIN 53483
Dielectric strength	45 KV/mm	ISO 243	DIN 53481
Volume resistivity	10 ¹⁵ 'Ωcm	ISO 93	DIN 53482
Dissipation factor tan Δ at 1MHz	0,0006	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.