TECHNOLOGIC SOLUTIONS

POM-C [OMNIACETAL c]			
Density	1,41 g /c m ³	ISO 1183	DIN 53479
Water a bsorption in air 50% r.h.	0,2 %	ISO 62	DIN 53715
Absorption 23-C in water-saturation	0,65 %	ISO 62	DIN 53495
MECHANICAL PROPERTIES			
Tensile stress at yield at break	63 N/ mm ²	ISO 527	DIN53455
Elongation at break	31 %	ISO 527	DIN53455
Tensile Modulus of elasticity	2600 N/ mm ²	ISO 527	DIN53455
Com pression test 1% strain 1000h	N.A.	ISO 899	DIN53444
Impa ct strength Charpy 7,5 J	No break	ISO R179	DIN53453
Notched impa ct strength Charpy	6 KJ/ mm ²	ISO179/3C	DIN53453
Ball indentation hardness	125 N/ mm²	ISO2039.1	DIN53456
Rockwell hardness	M88	ISO2039.2	DIN53456
Coefficient of fric tion to steel [12]	0,35	ISO 8295	DIN 53375
THERMAL PROPERTIES			
Melting point	165 °C	ISO 3146	
Thermal c onductivity	0,3 W/(km)	ISO 22007.2	DIN 52612
Deformation at tem perature HDT ^[15]	95 °C	ISO75	DIN 53461
Linear expa nsion c oefficient 23-60°C	120 x 10 ⁻⁶ K ⁻¹	ISO 11359	DIN 53752
Operating temperature c ontinuously ^[17]	100 °C		
Operating temperature short period-no loa d ^[18]	140 °C		
Minimum operating temperature ^[19]	-50 °C		
Flammability UL 94 (3-6 mm thickness)	HB		UL94
Oxygen index (LOI)	15 %	ISO4589	DIN 22117

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ELECTRICAL PROPERTIES

Dielectric c onstant at 1 MHz.	3,8	ISO 250	DIN 53483
Dielectric strength	40 KV/ mm	ISO 243	DIN 53481
Volume resistivity	10 ¹⁵ Ωc m	ISO 93	DIN 53482
Dissipation factor tan Δ at 1MHz	0,005	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 upw ards 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 goo d faith and are not legally binding. For any p articular ap plic ation, the technical staff of Omnia Plastica spa is at your disposal to assist with solving your problem.