DATA SHEET

POM ROUND ROD FOOD -SAFE

Food compliant:
- ✓ food grade
- ✓ EU Regulation 1935/2004
- ✓ EU Regulation 10/2011

Customised sizes

Material:
POM



ORDER NO.	TYPE	COLOUR	RAL	Ø	LENGTH
4061408118168	496020B1000	blue	5002	20	1000
4061408115587	496030B1000	blue	5002	30	1000
4061408121519	496040B1000	blue	5002	40	1000
4061408118144	496020G1000	grün	6016	20	1000
4061408115570	496030G1000	grün	6016	30	1000
4061408120109	496040G1000	grün	6016	40	1000
4061408115600	496030N1000	natur	-	30	1000
4061408120116	496020R1000	rot	3027	20	1000
4061408115594	496030R1000	rot	3027	30	1000
4061408119714	496040R1000	rot	3027	40	1000
4061408118151	496020S1000	orange	2009	20	1000
4061408115563	496030S1000	orange	2009	30	1000
4061408119707	496040S1000	orange	2009	40	1000
4061408118380	496020Y1000	gelb	1016	20	1000
4061408088553	496030Y1000	gelb	1016	30	1000
4061408121076	496040Y1000	gelb	1016	40	1000

FURTHER DIMENSIONS IN OUR SHOP: **WWW.MOVET.DE**

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GENERAL			
Density	1,41 g /c m^3	ISO 1183	DIN 53479
Water absorption 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
Compression test 1% strain 1000h	N.A.	ISO 899	DIN53444
Impact strength Charpy 7,5 J	No break	ISO R179	DIN53453
Notched impact strength Charpy	6 KJ/ mm^2	ISO179/3C	DIN53453
Ball indentation hardness	125 N/ mm^2	ISO2039.1	DIN53456
Rockwell hardness	M88	ISO2039.2	DIN53456
Coefficient of friction to steel [12]	0,35	ISO 8295	DIN 53375
THERMAL PROPERTIES			
Melting point	165 °C	ISO 3146	
Thermal conductivity	0,3 W/(km)	ISO 22007.2	DIN 52612
Deformation at temperature HDT[15]	95 °C	ISO75	DIN 53461
Linear expansion coefficient 23-60 °C	120 x 10^{-6} K^{-1}	ISO 11359	DIN 53752
Operating temperature continuously[17]	100 °C		
Operating temperature short period-no load[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 constant at 1 MHz.	3,8	ISO 250	DIN 53483
Dielectric strength	40 KV/ mm	ISO 243	DIN 53481
Volume resistivity	10^{15} Ωcm	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 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.

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