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Technical data sheet

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POM (polyoxymethylene)

Properties	Value	Unit	DIN Standard
Hardness	81	Shore D	ISO 0868
Density	1,41	g/cm ³	ASTM D792
Tensile Strength 23°C	65	MPa	ISO 527
Elongation at Break 23°C	40	%	ISO 527
Yield strength	65	MPa	ISO 527
Tensile modulus	2900	MPa	ISO 527
Flexural modulus	2800	MPa	ISO 178
Flexural strength	95	MPa	ISO 178
Compressive strength	87	MPa	DIN 53455
Coefficient of friction	0,28	μ	
Water absorption 23°C, saturation	0,8	%	ISO 62
Service Temperature (Min-Max)	-50/+100	°C	/
Short-term service temperature	140	°C	
Melting temperature	164	°C	ISO 3146
Flammability classification	HB		UL 94

In sealing technology, POM (polyoxymethylene) is mainly used for dimensionally stable sealing components where mechanical strength is critical rather than elastic sealing.

It is well suited for back-up rings, guide rings, anti-extrusion rings, valve components, and wear rings, where it supports or protects elastomer seals under high pressure.

Foodstuff approval:

FDA *

EU Regulation 10/2011*

*The user is responsible for performing the necessary tests to confirm that the above-mentioned material is suitable for use in pharmaceutical and medical applications.

All data provided above are based on random samples taken from our ongoing production. The results were determined using standard test specimens in accordance with ISO, DIN, and ASTM methods. These results cannot be directly applied to specific finished components.

Any technical information or advice we provide—whether verbal, written, or based on testing—is given to the best of our knowledge. Nevertheless, this information should be regarded as non-binding guidance and does not release the user from the obligation to verify the suitability of our products for their intended process or application. Possible third-party property rights must also be observed.

Since the use, application, and processing of our products take place beyond our control, they remain solely the responsibility of the user. In any case where liability may arise, it shall be limited to damages not exceeding the value of the product supplied and used.

We do, however, guarantee the flawless quality of our products in accordance with our general terms and conditions of sale and delivery.

