



MATERIAL DATA SHEET

POM | FDA

GENERAL INFORMATION

POM | FDA is a polyacetal-copolymer, commonly known as POM (Polyoxymethylene) and Acetal. POM | FDA is one of the most important engineering plastics with excellent mechanical strength, high dimensional stability, high wear resistance, low water-absorbtion and good chemical resistance.

POM | FDA is used in mineral oils and water-based fire-resistant pressure fluids (HFA, HFB, HFC). POM has good recyclability.

POM | FDA is approved and corresponds to foodgrade standards.

MECHANICAL | ELECTRICAL | THERMAL PROPERTIES

Colour:			white
Hardness at 20°:	DIN 53505	Shore D	85
Density:	DIN 53479	g/cm ³	1.41
Tensile strength:	EN ISO 527-2	N/mm ²	> 70
Elongation at break:	EN ISO 527-2	%	> 35
Modulus of elasticity:	EN ISO 527-2	N/mm ²	3000
Charpy impact strength:	EN ISO 179	kJ/m ²	> 140
Compr. strength at 1% deform.:	ASTM D695	N/mm ²	100
Coefficient of friction (dyn.):	ASTM D1894	μ	< 0.25
Water absorbtion to saturation:	EN ISO 62	%	< 0.8
Water absorbtion in 23h:	EN ISO 62	%	< 0.2
Dielectric strength:	EN IEC 60243	kV/mm	20
Volume resistivity:	EN IEC 60093	Ω*cm	> 10 ¹⁴
Surface resistivity:	EN IEC 60093	Ω	> 10 ¹³
Coefficient of therm. expansion:		1/K*10 ⁶	120
Min. service temperature:		°C	- 60
Max. service temperature (short term):		°C	+ 100 (+140)

REMARK

All test methods and values stated above are corresponding to ASTM | DIN | ISO standards and have been tested on standardized plates in the laboratory. All tests are made under laboratory conditions.

This information does not except our customers to test our products for its suitability for the intended application.

Utilization, processing and application of our products are out of our control and therefore our customers responsibility, also in terms of any protective rights of any third party.