

MATERIAL DATA SHEET

POM

POM-2x is a polyacetal-copolymer, commonly known as POM (Polyoxymethylene) and Acetal. POM 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-2x is used in mineral oils and water based fire resistant pressure fluids (HFA, HFB, HFC). POM-2x has good recyclability.

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 mentioned 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.