

Material Data Sheet

UTECTAL-1

General Information

UTECTAL-1 is a polyacetal-copolymer, commonly known as POM and Acetal. POM is one of the most important engineering plastics with excellent mechanical properties, low water-absorption, high wear resistance, high dimensional stability and good chemical resistance. UTECTAL-1 is used in mineral oils, water based fire resistant pressure fluids (HFA, HFB, HFC) and is suitable for applications in contact with foodstuff.

Physical properties

Colour:			white
Hardness at 20°:	DIN 53505	Shore D	85
Density:	DIN 53479	g/cm ³	1.41
Tensile strength:	DIN 53504	N/mm ²	> 65
Elongation at break:	DIN 53504	%	> 40
Modulus of elasticity test :	DIN 53457	N/mm ²	2760
Coefficient of friction (dyn.):	ASTM D1894	μ	< 0.25
Water absorption to saturation:	ASTM D570	%	< 0.9
Water absorption in 24h:	ASTM D570	%	< 0.2
Compr. strength at 1% deform.:	ASTM D695	N/mm ²	100
Min. service temperature:		°C	- 60
Max. service temperature:		°C	+ 100

Remark

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