

## POM

### Mechanical, Physical and Thermal Properties

Polyoxymethylene/Polyacetal

properties	condition	standard	unit	unit
colour			white	white
density/specific gravity	23 °C	DIN 53479	kg/m³	g/cm³
hardness	23 °C	ISO 868	Shore D	81 ±3
ball indentation hardness	23 °C	ISO 2039, Part 1 (F:358N)	MPa	144
tensile strength	23 °C	ISO 527	MPa	60
elongation at break	23 °C	ISO 527	%	30
compressive strength	23 °C	DIN 53455	MPa	88
thermal conductivity		DIN 52612	W/(m*K)	0,31
coefficient of thermal expansion	25 °C - 200 °C		K⁻¹ * 10⁻⁵	11
coefficient of friction *	23 °C		μ	0,28
minimum service temperature			°C	-45
maximum service temperature			°C	100
young's modulus	23 °C	ISO 527	MPa	2500
				psi
				362594

\* coefficient of friction dry dynamic Steel 16MnCr5 v=0,6m/s; p=0,05 MPa; t=5h

## CHEMICAL PROPERTIES

Copolymer, based on methylenoxide

Resistant to fuels, water, lyes, lubricants, alcohols and solvents

Not resistant to strong mineral acids, oxidising chemicals, ethers; limited resistant to UV radiation and long term hot water

Foodstuff approval: FDA approval

Detailed information concerning chemical resistance see Chemical Resistance Guide

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