

POM

Mechanical, Physical and Thermal Properties

Polyoxymethylene/Polyacetal

properties	condition	standard	unit		unit	
colour				white		white
density/specific gravity	23 °C	DIN 53479	kg/m ³	1410	g/cm ³	1,41
hardness	23 °C	ISO 868	Shore D	81 ±3	Shore D	81 ±3
ball indentation hardness	23 °C	ISO 2039, Part 1 (F:358N)	MPa	144	psi	20885
tensile strength	23 °C	ISO 527	MPa	60	psi	8702
elongation at break	23 °C	ISO 527	%	30	%	30
compressive strength	23 °C	DIN 53455	MPa	88	psi	12800
thermal conductivity		DIN 52612	W/(m*K)	0,31	W/(m*K)	0,31
coefficient of thermal expansion	25 °C - 200 °C		K ⁻¹ * 10 ⁻⁵	11	K ⁻¹ * 10 ⁻⁵	11
coefficient of friction *	23 °C		μ	0,28	μ	0,28
minimum service temperature			°C	-45	°F	-49
maximum service temperature			°C	100	°F	212
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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