



Material data sheet

POM white

Polyoxymethylene

High pressure and extrusion strength; suitable for mineral oils and greases
Resistant to: fuels, water, lyes, lubricants, alcohols and solvents

Properties	Condition	Standard	Unit			
Colour			white			
Density/ specific gravity	23°C	DIN 53 479	kg/m³	1410	g/cm³	1,41
Hardness	23°C	ISO 868	Shore D	85+/-3	Shore D	85+/-3
Ball indentation hardness	23°C	DIN 53 456 H135/30	MPa	160	Psi	23000
Tensile strength	23°C	ASTM D 4745-79	MPa	70	Psi	10100
Elongation at break	23°C	ASTM D 4745-79	%	40	%	40
Compressive strength	23°C	DIN 53 455	MPa	88	Psi	12800
Thermal conductivity	23°C	DIN 52 612	$\frac{\text{J} \times 10^{-3}}{\text{m} \times \text{h} \times \text{K}}$	0,25	$\frac{\text{J} \times 10^{-3}}{\text{m} \times \text{h} \times \text{K}}$	0,25
Coefficient of thermal expansion	23°C – 200°C		$\text{K}^{-1} \times 10^{-5}$	11	$\text{K}^{-1} \times 10^{-5}$	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	DIN 53 457	MPa	3000	Psi	435000
* dynamic coefficient of friction, dry, Steel 16MnCR5: v=0,6m/s; p=0,05 MPa; t=5h						

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

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