

## DMH 400 POM

Polyoxymethelene/Polyacetal

### Mechanical, Physical and Thermal Properties

properties	condition	standard	unit	unit	unit	
colour				white	white	
density/specific gravity	23 °C	DIN 53479	kg/m <sup>3</sup>	<b>1410</b>	g/cm <sup>3</sup>	<b>1,41</b>
hardness	23 °C	ISO 868	Shore D	<b>85 ±3</b>	Shore D	<b>85 ±3</b>
ball indentation hardness	23 °C	DIN 53456 H135/30	MPa	<b>160</b>	psi	<b>23000</b>
tensile strength	23 °C	ASTM D 4745-79	MPa	<b>70</b>	psi	<b>10100</b>
elongation at break	23 °C	ASTM D 4745-79	%	<b>40</b>	%	<b>40</b>
compressive strength	23 °C	DIN 53455	MPa	<b>88</b>	psi	<b>12800</b>
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	<b>0,25</b>	$\frac{J * 10^3}{m * h * K}$	<b>0,25</b>
coefficient of thermal expansion	25 °C - 200 °C		$K^{-1} * 10^{-5}$	<b>11</b>	$K^{-1} * 10^{-5}$	<b>11</b>
coefficient of friction *	23 °C		μ	<b>0,28</b>	μ	<b>0,28</b>
minimum service temperature			°C	<b>-45</b>	°F	<b>-49</b>
maximum service temperature			°C	<b>100</b>	°F	<b>212</b>
young's modulus	23 °C	DIN 53457	MPa	<b>3000</b>	psi	<b>435000</b>

\* 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 DMH Chemical Resistance Guide

DMH GmbH

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