DMH
SOLUTIONS FOR SEALS

DMH 401 POM black

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				black		black
density/specific gravity	23°C	DIN 53479	kg/m^3	1410	g/cm^3	1,41
hardness	23°C/3 sek.	ISO 868	Shore D	81 ± 3	Shore D	81 ± 3
hardness	23°C/15 sek	ISO 868	Shore D	78 ± 3	Shore D	78 ± 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	$\frac{J * 10^3}{m * h * K}$	0,31	$\frac{J * 10^3}{m * h * K}$	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

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

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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

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