

## DMH 644 PTFE CF10%

### Mechanical, Physical and Thermal Properties

properties	condition	standard	unit	grey	unit	grey
colour				grey		grey
density/specific gravity	23 °C	DIN 53479	kg/m <sup>3</sup>	2080	g/cm <sup>3</sup>	2,08
hardness	23 °C/3 sec.	ISO 868	Shore D	58 ± 3	Shore D	58 ± 3
hardness	23°C/15 sec.	ISO 868	Shore D	54 ± 3	Shore D	54 ± 3
ball indentation hardness	23 °C	DIN 53456 H 135/30	MPa	37	psi	5366
tensile strength	23 °C	ASTM D 4745-11a	MPa	≥ 22	psi	≥ 3191
elongation at break	23 °C	ASTM D 4745-11a	%	≥ 250	%	≥ 250
compressive strength	23 °C	DIN 53455	MPa		psi	
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$		$\frac{J * 10^3}{m * h * K}$	
coefficient of thermal expansion	25 °C - 200 °C		K <sup>-1</sup> * 10 <sup>-5</sup>	9,3	K <sup>-1</sup> * 10 <sup>-5</sup>	9,3
coefficient of friction *	23 °C		μ		μ	
minimum service temperature			°C	-180	°F	-292
maximum service temperature			°C	250	°F	482
young's modulus	23 °C	DIN 53457	MPa	300	psi	43511

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

### Chemical Properties

Filled PTFE

Resistant to almost all chemicals

Not resistant to halogenides, elemental fluorine, CF<sub>3</sub>, molten alkali metals

Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH GmbH

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