

# DMH 651 M-PTFE

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				white		white
density/specific gravity	23 °C	DIN 53479	kg/m <sup>3</sup>	2150	g/cm <sup>3</sup>	2,15
hardness	23 °C/3 sek.	ISO 868	Shore D	57 ± 3	Shore D	57 ± 3
hardness	23°C/15 sek.	ISO 868	Shore D	54 ± 3	Shore D	54 ± 3
ball indentation hardness	23 °C	DIN 53456 H 135/30	MPa	23 ± 5	psi	3335 ± 725
tensile strength	23 °C	ASTM D 4745-11a	MPa	≥ 30	psi	≥ 4350
elongation at break	23 °C	ASTM D 4745-11a	%	≥ 400	%	≥ 400
compressive strength	23 °C	DIN 53455	MPa		psi	
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	0,22	$\frac{J * 10^3}{m * h * K}$	0,22
coefficient of thermal expansion	25 °C - 200 °C		K <sup>-1</sup> * 10 <sup>-5</sup>	12-17*10 <sup>-5</sup>	K <sup>-1</sup> * 10 <sup>-5</sup>	12-17*10 <sup>-5</sup>
coefficient of friction *	23 °C		μ		μ	
minimum service temperature			°C	-200	°F	-328
maximum service temperature			°C	260	°F	500
young's modulus	23 °C	DIN 53457	MPa	640	psi	92000

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

## Chemical Properties

Resistant to almost all chemicals

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

<b>Foodstuff approval</b>	FDA
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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

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