

MATERIAL DATASHEET

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 ³	2150	g/cm ³	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	$\frac{J \cdot 10^3}{m \cdot h \cdot K}$	0,22	$\frac{J \cdot 10^3}{m \cdot h \cdot K}$	0,22
coefficient of thermal expansion	25 °C - 200 °C		K ⁻¹ * 10 ⁻⁵	12-17*10-5	K ⁻¹ * 10 ⁻⁵	12-17*10-5
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, CF3, molten alkali metals

Foodstuff approval	FDA
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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH

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