

# DMH 613 PTFE 25% Glass

Mechanical, Physical and Thermal Properties

25 % clean milled fibres + 75 % virgin PTFE

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				grey		grey
density/specific gravity	23 °C	DIN 53479	kg/m <sup>3</sup>	2210	g/cm <sup>3</sup>	2,21
hardness	23 °C/3 sek.	ISO 868	Shore D	58 ±3	Shore D	58 ±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	24 ±5	psi	3480 ±725
tensile strength	23 °C	ASTM D 4745-11a	MPa	≥ 17	psi	≥ 2465
elongation at break	23 °C	ASTM D 4745-11a	%	≥ 170	%	≥ 170
compressive strength	23 °C	DIN 53455	MPa	≥ 8	psi	≥ 1160
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	≥ 1,3	$\frac{J * 10^3}{m * h * K}$	≥ 1,3
coefficient of thermal expansion	25 °C - 200 °C		K <sup>-1</sup> * 10 <sup>-5</sup>	≥ 10,7	K <sup>-1</sup> * 10 <sup>-5</sup>	≥ 10,7
coefficient of friction *	23 °C		μ	≥ 0,16	μ	≥ 0,16
minimum service temperature			°C	-200	°F	-328
maximum service temperature			°C	260	°F	500
young's modulus		DIN 53457	MPa	1320	psi	191500

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

## Chemical Properties

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

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

## DMH Dichtungs- und Maschinenhandel GmbH

Industriepark West 11  
8772 Traboch  
Austria  
[dmh.at](http://dmh.at)

p. +43 (0)3833/200 60-0  
f. +43 (0)3833/200 60-500  
e. [office@dmh.at](mailto:office@dmh.at)

