

## DMH 650 PTFE Ekonol® 10 % Ekonol + 90 % virgin PTFE

### Mechanical, Physical and Thermal Properties

properties	condition	standard	unit	unit	unit
colour				cream	cream
density/specific gravity	23 °C	DIN 53479	kg/m <sup>3</sup>	2040	g/cm <sup>3</sup> 2,04
hardness	23 °C/3 sec.	ISO 868	Shore D	56 ±3	Shore D 56 ±3
hardness	23°C/15 sec.	ISO 868	Shore D	54 ±3	Shore D 54 ±3
ball indentation hardness	23 °C	DIN 53456 H135/30	MPa	28 ±5	psi 4060 ±725
tensile strength	23 °C	ASTM D 4745-11a	MPa	≥ 20	psi ≥ 2900
elongation at break	23 °C	ASTM D 4745-11a	%	≥ 250	% ≥ 250
compressive strength	23 °C	DIN 53455	MPa	≥ 11	psi ≥ 1595
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	5,4	$\frac{J * 10^3}{m * h * K}$ 5,4
coefficient of thermal expansion	25 °C - 200 °C		K <sup>-1</sup> * 10 <sup>-5</sup>	8,4	K <sup>-1</sup> * 10 <sup>-5</sup> 8,4
coefficient of friction *	23 °C		μ	0,18	μ 0,18
minimum service temperature			°C	-200	°F -328
maximum service temperature			°C	260	°F 500
young's modulus	23 °C	DIN 53457	MPa		psi

\* 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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