

## DMH 620 PTFE II

40 % bronze + 60 % virgin PTFE

### Mechanical, Physical and Thermal Properties

properties	condition	standard	unit	unit	unit	
colour				<b>brown</b>	<b>brown</b>	
density/specific gravity	<b>23 °C</b>	DIN 53479	kg/m <sup>3</sup>	<b>3110</b>	g/cm <sup>3</sup>	<b>3,11</b>
hardness	<b>23 °C/3 sec.</b>	ISO 868	Shore D	<b>60 ±3</b>	Shore D	<b>60 ±3</b>
hardness	<b>23°C/15 sec.</b>	ISO 868	Shore D	<b>59 ±3</b>	Shore D	<b>59 ±3</b>
ball indentation hardness	<b>23 °C</b>	DIN 53456 H135/30	MPa	<b>33 ±5</b>	psi	<b>4790 ±725</b>
tensile strength	<b>23 °C</b>	ASTM D 4745-11a	MPa	<b>≥ 22</b>	psi	<b>≥ 3190</b>
elongation at break	<b>23 °C</b>	ASTM D 4745-11a	%	<b>≥ 200</b>	%	<b>≥ 200</b>
compressive strength	<b>23 °C</b>	DIN 53455	MPa	<b>≥ 10</b>	psi	<b>≥ 1450</b>
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	<b>≥ 4,0</b>	$\frac{J * 10^3}{m * h * K}$	<b>≥ 4,0</b>
coefficient of thermal expansion	<b>25 °C - 200 °C</b>		K <sup>-1</sup> * 10 <sup>-5</sup>	<b>≥ 8</b>	K <sup>-1</sup> * 10 <sup>-5</sup>	<b>≥ 8</b>
coefficient of friction *	<b>23 °C</b>		μ	<b>≥ 0,13</b>	μ	<b>≥ 0,13</b>
minimum service temperature			°C	<b>-200</b>	°F	<b>-328</b>
maximum service temperature			°C	<b>260</b>	°F	<b>500</b>
young's modulus	<b>23 °C</b>	DIN 53457	MPa	<b>≥ 1375</b>	psi	<b>≥ 199500</b>

\* 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

revision: 04-2020