

DMH 620 PTFE II

Mechanical, Physical and Thermal Properties

40 % bronze + 60 % virgin PTFE

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				brown		brown
density/specific gravity	23 °C	DIN 53479	kg/m ³	3110	g/cm ³	3,11
hardness	23 °C/3 sek.	ISO 868	Shore D	60 ±3	Shore D	60 ±3
hardness	23°C/15 sek.	ISO 868	Shore D	59 ±3	Shore D	59 ±3
ball indentation hardness	23 °C	DIN 53456 H 135/30	MPa	33 ±5	psi	4790 ±725
tensile strength	23 °C	ASTM D 4745-11a	MPa	≥ 22	psi	≥ 3190
elongation at break	23 °C	ASTM D 4745-11a	%	≥ 200	%	≥ 200
compressive strength	23 °C DIN 53455	DIN 53455	MPa	≥ 10	psi	≥ 1450
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	≥ 4,0	$\frac{J * 10^3}{m * h * K}$	≥ 4,0
coefficient of thermal expansion	25 °C - 200 °C		K ⁻¹ * 10 ⁻⁵	≥ 8	K ⁻¹ * 10 ⁻⁵	≥ 8
coefficient of friction *	23 °C		μ	≥ 0,13	μ	≥ 0,13
minimum service temperature			°C	-200	°F	-328
maximum service temperature			°C	260	°F	500
young's modulus		DIN 53457	MPa	≥ 1375	psi	≥ 199500

* 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

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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

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