

MATERIAL DATASHEET

DMH 621 PTFE D46

Mechanical, Physical and Thermal Properties

46 % Bronze + 1 % pigments + 53 % virgin PTFE

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				bronze blue		bronze blue
density/specific gravity	23 °C	DIN 53479	kg/m ³	3200	g/cm ³	3,2
hardness	23 °C/3 sek.	ISO 868	Shore D	63 ±3	Shore D	63 ±3
hardness	23°C/15 sek.	ISO 868	Shore D	60 ±3	Shore D	60 ±3
ball indentation hardness	23 °C	DIN 53456 H 135/30	MPa	35 ±5	psi	5075 ±725
tensile strength	23 °C	ASTM D 4745-11a	MPa	≥ 22	psi	≥ 3190
elongation at break	23 °C	ASTM D 4745-11a	%	≥ 170	%	≥ 170
compressive strength	23 °C	DIN 53455	MPa	≥ 10	psi	≥ 1450
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	≥ 4,2	$\frac{J * 10^3}{m * h * K}$	≥ 4,2
coefficient of thermal expansion	25 °C - 200 °C		K ⁻¹ * 10 ⁻⁵	≥ 8,5	K ⁻¹ * 10 ⁻⁵	≥ 8,5
coefficient of friction *	23 °C		μ	≥ 0,15	μ	≥ 0,15
minimum service temperature			°C	-200	°F	-328
maximum service temperature			°C	260	°F	500
young's modulus		DIN 53457	MPa	≥ 1420	psi	≥ 206000

* 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

DMH

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