

MATERIAL DATASHEET

DMH 644 PTFE CF10%

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				dark grey		dark grey
density/specific gravity	23 °C	DIN 53479	kg/m ³	2080	g/cm ³	2,08
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	37	psi	5366
tensile strength	23 °C	ASTM D 4745-11a	MPa	≥ 22	psi	≥ 3191
elongation at break	23 °C	ASTM D 4745-11a	%	≥150	%	≥ 150
compressive strength	23 °C	DIN 53455	MPa		psi	
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$		$\frac{J * 10^3}{m * h * K}$	
coefficient of thermal expansion	25 °C - 200 °C		K ⁻¹ * 10 ⁻⁵	9,3	K ⁻¹ * 10 ⁻⁵	9,3
coefficient of friction *			μ		μ	
minimum service temperature			°C	-180	°F	-292
maximum service temperature			°C	250	°F	482
young's modulus	23 °C	DIN 53457	MPa	300	psi	43511

* 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

revision: 03-2024

Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH

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ISO 9001:2015

No.04427/0