

MATERIAL DATASHEET

DMH 645 PTFE CF15%

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	2050	g/cm ³	2,05
hardness	23 °C/3 sek.	ISO 868	Shore D	60 ± 3	Shore D	60 ± 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	40	psi	5801
tensile strength	23 °C	ASTM D 4745-11a	MPa	≥ 18	psi	≥ 2610
elongation at break	23 °C	ASTM D 4745-11a	%	≥ 190	%	≥ 190
compressive strength	23 °C	DIN 53455	MPa		psi	
thermal conductivity		DIN 52612	$\frac{J \cdot 10^3}{m \cdot h \cdot K}$		$\frac{J \cdot 10^3}{m \cdot h \cdot K}$	
coefficient of thermal expansion	25 °C - 200 °C		K ⁻¹ * 10 ⁻⁵	7,1	K ⁻¹ * 10 ⁻⁵	7,1
coefficient of friction *	23 °C		μ		μ	
minimum service temperature			°C	-180	°F	-292
maximum service temperature			°C	250	°F	482
young's modulus	23 °C	DIN 53457	MPa	260	psi	37710

* 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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