

DMH 640 PTFE CARBON 25 % Carbon + 75 % virgin PTFE

Mechanical, Physical and Thermal Properties

properties	condition	standard	unit	unit	unit
colour				black	black
density/specific gravity	23 °C	DIN 53479	kg/m ³	2060	g/cm ³ 2,06
hardness	23 °C/3 sec.	ISO 868	Shore D	65 ±3	Shore D 65 ±3
hardness	23°C/15 sec.	ISO 868	Shore D	63 ±3	Shore D 63 ±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	≥ 12	psi ≥ 1740
elongation at break	23 °C	ASTM D 4745-11a	%	≥ 45	% ≥ 45
compressive strength	23 °C	DIN 53455	MPa		psi
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	≥ 3,5	$\frac{J * 10^3}{m * h * K}$ ≥ 3,5
coefficient of thermal expansion	25 °C - 200 °C		K ⁻¹ * 10 ⁻⁵	≥ 10,9	K ⁻¹ * 10 ⁻⁵ ≥ 10,9
coefficient of friction *	23 °C		μ	≥ 0,17	μ ≥ 0,17
minimum service temperature			°C	-200	°F -328
maximum service temperature			°C	260	°F 500
young's modulus	23 °C	DIN 53457	MPa		psi

* 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, CF₃, molten alkali metals

Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH GmbH

revision: 04-2020

DMH Dichtungs- und Maschinenhandel GmbH

A-8772 Traboch  Industriepark West 11

T: +43 (0)3833/200 60-0  F: +43 (0)3833/200 60-500

E: office@dmh.at  www.dmh.at

