DMH
SOLUTION FOR SEALS

DMH 610 PTFE I

15 % clean milled glass fibres + 5% MoS_2 + 80 % virgin PTFE

Mechanical, Physical and Thermal Properties

properties	condition	standard	unit		unit	
colour				**grey**		**grey**
density/specific gravity	**23 °C**	DIN 53479	kg/m³	**2260**	g/cm³	**2,26**
hardness	**23 °C/3 sec.**	ISO 868	Shore D	**58 ±3**	Shore D	**58 ±3**
hardness	**23°C/15 sec.**	ISO 868	Shore D	**58 ±3**	Shore D	**58 ±3**
ball indentation hardness	**23 °C**	DIN 53456 H135/30	MPa	**27 ±5**	psi	**3915 ±725**
tensile strength	**23 °C**	ASTM D 4745-11a	MPa	**≥ 16**	psi	**≥ 2320**
elongation at break	**23 °C**	ASTM D 4745-11a	%	**≥ 185**	%	**≥ 185**
compressive strength	**23 °C**	DIN 53455	MPa	**≥ 8**	psi	**≥ 1160**
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	**1,1**	$\frac{J * 10^3}{m * h * K}$	**1,1**
coefficient of thermal expansion	**25 °C - 200 °C**		$K^{-1} * 10^{-5}$	**13**	$K^{-1} * 10^{-5}$	**13**
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	**23 °C**	DIN 53457	MPa	**1320**	psi	**191500**

* 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

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