

MATERIAL DATASHEET

DMH 650 PTFE Ekonol®

Mechanical, Physical and Thermal Properties

10 % Ekonol + 90 % virgin PTFE

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				cream		cream
density/specific gravity	23 °C	DIN 53479	kg/m ³	2040	g/cm ³	2,04
hardness	23 °C/3 sek.	ISO 868	Shore D	56 ± 3	Shore D	56 ± 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	28 ± 5	psi	4060 ±725
tensile strength	23 °C	ASTM D 4745-11a	MPa	≥ 20	psi	≥ 2900
elongation at break	23 °C	ASTM D 4745-11a	%	≥ 250	%	≥ 250
compressive strength	23 °C	DIN 53455	MPa	≥ 11	psi	≥ 1595
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	5,4	$\frac{J * 10^3}{m * h * K}$	5,4
coefficient of thermal expansion	25 °C - 200 °C		K ⁻¹ * 10 ⁻⁵	8,4	K ⁻¹ * 10 ⁻⁵	8,4
coefficient of friction *	23 °C		μ	0,18	μ	0,18
minimum service temperature			°C	-200	°F	-328
maximum service temperature			°C	260	°F	500
young's modulus		DIN 53457	MPa		psi	

* 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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