

MATERIAL DATASHEET

DMH 601 PTFE D05

Mechanical, Physical and Thermal Properties

1 % pigments + 99 % virgin PTFE

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				turquoise		turquoise
density/specific gravity	23 °C	DIN 53479	kg/m ³	2170	g/cm ³	2,17
hardness	23 °C/3 sek.	ISO 868	Shore D	57 ±3	Shore D	57 ±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	≥ 31	psi	≥ 4495
elongation at break	23 °C	ASTM D 4745-11a	%	≥ 270	%	≥270
compressive strength	23 °C	DIN 53455	MPa	≥ 4	psi	≥ 580
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	≥ 0,8	$\frac{J * 10^3}{m * h * K}$	≥ 0,8
coefficient of thermal expansion	25 °C - 200 °C		K ⁻¹ * 10 ⁻⁵	≥ 19	K ⁻¹ * 10 ⁻⁵	≥ 19
coefficient of friction *	23 °C		μ	≥ 0,08	μ	≥ 0,08
minimum service temperature			°C	-200	°F	-328
maximum service temperature			°C	260	°F	500
young's modulus	23 °C	DIN 53457	MPa	≥ 540	psi	≥ 78500

* 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

Foodstuff approval	FDA compliant
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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH

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