

# 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 <sup>3</sup>	2170	g/cm <sup>3</sup>	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 <sup>-1</sup> * 10 <sup>-5</sup>	≥ 19	K <sup>-1</sup> * 10 <sup>-5</sup>	≥ 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, CF<sub>3</sub>, molten alkali metals

<b>Foodstuff approval</b>	FDA compliant
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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

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