

MATERIAL DATASHEET

DMH 410 PA6

Mechanical, Physical and Thermal Properties

Polyamide

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				nature		nature
density/specific gravity	23°C	ISO 1183	kg/m ³	1130	g/cm ³	1,13
hardness	23°C/3 sek.	ISO 868	Shore D	79 ± 3	Shore D	79 ± 3
hardness	23°C/15 sek	ISO 868	Shore D	78 ± 3	Shore D	78 ± 3
ball indentation hardness	23°C	ISO 2039, Part 1 (F:358N)	MPa	165	psi	23930
tensile strength	23°C	ISO 527	MPa	80	psi	11600
elongation at break	23°C	ISO 527	%	40	%	40
compressive strength	23°C	DIN 53455	MPa		psi	
thermal conductivity			$\frac{J \cdot 10^3}{m \cdot h \cdot K}$	0,29	$\frac{J \cdot 10^3}{m \cdot h \cdot K}$	0,29
coefficient of thermal expansion	25°C-200°C		K ⁻¹ * 10 ⁻⁵	8	K ⁻¹ * 10 ⁻⁵	8
coefficient of friction *	23°C		μ	0,4	μ	0,4
minimum service temperature			°C	-40	°F	-40
maximum service temperature			°C	110	°F	230
young's modulus	23°C	ISO 527	MPa	3000	psi	435000

* coefficient of friction dry dynamic Steel 16MnCr5 v=0,6m/s; p=0,05 MPa; t=5h

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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH

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