

DMH 654 PTFE PEEK

Mechanical, Physical and Thermal Properties

properties	condition	standard	unit	unit	unit
colour				cream	cream
density/specific gravity	23 °C	DIN 53479	kg/m ³	2050	g/cm ³ 2,05
hardness	23 °C/3 sec.	ISO 868	Shore D	60 ±3	Shore D 60 ±3
hardness	23°C/15 sec.	ISO 868	Shore D	57 ±3	Shore D 57 ±3
ball indentation hardness	23 °C	DIN 53456 H 135/30	MPa		psi
tensile strength	23 °C	ASTM D 4745-11a	MPa	≥ 21	psi ≥ 3045
elongation at break	23 °C	ASTM D 4745-11a	%	≥ 220	% ≥ 220
compressive strength	23 °C	DIN 53455	MPa		psi
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$		$\frac{J * 10^3}{m * h * K}$
coefficient of thermal expansion	25 °C - 200 °C		K ⁻¹ * 10 ⁻⁵		K ⁻¹ * 10 ⁻⁵
coefficient of friction *	23 °C		μ		μ
minimum service temperature			°C	-200	°F -328
maximum service temperature			°C	260	°F 500
young's modulus	23 °C	DIN 53457	MPa		psi

* 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

Foodstuff applications FDA

Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH GmbH

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