

MATERIAL DATASHEET

DMH 140 C-HPU 72D

Mechanical, Physical and Thermal Properties

thermoplastic polyurethane with resistance to hydrolysis

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour			Shore A	black		black
hardness	23°C	ISO 868			Shore A	
hardness	23°C	ISO 868	Shore D	70 ± 3	Shore D	70 ± 3
hardness	23°C	ISO 868	Shore D	68 ± 3	Shore D	68 ± 3
modulus 100%	23°C	DIN 53 504	MPa	≥ 30	psi	≥ 4350
modulus 300 %	23°C	DIN 53 504	MPa		psi	
tensile strength	23°C	DIN 53 504	MPa	≥ 50	psi	≥ 7250
elongation at break	23°C	DIN 53 504	%	≥ 150	%	≥ 150
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 110	lbf/inch	≥ 625
spec. gravity	23°C	ISO 1183	kg/m ³	1210	g/cm ³	1,21
abrasion		DIN 53 516	mm ³		mm ³	
compression set	*	ISO 815	%		%	
compression set	**	ISO 815	%		%	
minimum service temperature			°C	-20	°F	-4
maximum service temperature			°C	110	°F	230

* 24h 70°C 25% def. ** 24h 100°C 25% def. *** 24h 150°C 25% def.

Chemical Properties

Copolymer, based on aromatic isocyanate and diols

Resistant to oil, water, ozone, microbes

Not resistant to conc. acids, conc. lyes, conc. alcohols and aromatic solvents

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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH

DMH Dichtungs- und Maschinenhandel GmbH

Industriepark West 11

8772 Traboch, Österreich

+43 833 200 60 0

