

MATERIAL DATASHEET

DMH 111 HPU Supersoft

Mechanical, Physical and Thermal Properties

thermoplastic polyurethane with resistance to hydrolysis

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				yellow		yellow
hardness	23°C/3 sek.	ISO 868	Shore A	85 ± 2	Shore A	85 ± 2
hardness		ISO 868	Shore D		Shore D	
hardness		ISO 868	Shore D		Shore D	
modulus 100%	23°C	DIN 53 504	MPa	≥ 7,5	psi	≥ 145
modulus 300 %	23°C	DIN 53 504	MPa	≥ 21	psi	≥ 3045
tensile strength	23°C	DIN 53 504	MPa	≥ 40	psi	≥ 5800
elongation at break	23°C	DIN 53 504	%	≥ 390	%	≥ 390
tear strength		DIN ISO 34-1	kN/m		lbf/inch	
spec. gravity	23°C	ISO 1183	kg/m ³	1185	g/cm ³	1,185
abrasion		DIN ISO 4649 A	mm ³	27	mm ³	27
compression set	*	ISO 815	%	≤ 35	%	≤ 35
compression set	**	ISO 815	%	≤ 35	%	≤ 35
minimum service temperature			°C	-20	°F	-4
maximum service temperature			°C	100	°F	212

* 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, hot water, hot air, ozone, synthetic and native esters

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

