

MATERIAL DATASHEET

DMH 171 SL-PU 55D

Mechanical, Physical and Thermal Properties

thermoplastic polyurethane with solid lubricants

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour			Shore A	grey		grey
hardness		ISO 868			Shore A	
hardness	23°C/3 sek.	ISO 868	Shore D	55 ± 3	Shore D	55 ± 3
hardness	23°C/15 sek.	ISO 868	Shore D	49 ± 3	Shore D	49 ± 3
modulus 100%	23°C	DIN 53 504	MPa	≥ 16	psi	≥ 2321
modulus 300 %	23°C	DIN 53 504	MPa	≥ 35	psi	≥ 5076
tensile strength	23°C	DIN 53 504	MPa	≥ 45	psi	≥ 6525
elongation at break	23°C	DIN 53 504	%	≥ 330	%	≥ 330
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 110	lbf/inch	≥ 630
spec. gravity	23°C	ISO 1183	kg/m ³	1210	g/cm ³	1,21
abrasion		DIN 53 516	mm ³	25	mm ³	25
compression set	*	ISO 815	%	≤ 30	%	≤ 30
compression set	**	ISO 815	%	≤ 35	%	≤ 35
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

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