

DMH 120 C-HPU Mechanical, Physical and Thermal Properties

thermoplastic polyurethane with resistance to hydrolysis

properties	condition	standard	unit	unit	unit
colour				red ***	red ***
hardness	23°C	ISO 868	Shore A	96 ± 2	Shore A 96 ± 2
hardness	23°C	ISO 868	Shore D	50 ± 3	Shore D 50 ± 3
modulus 100%	23°C	DIN 53 504	MPa	≥ 12	psi ≥ 1740
modulus 300 %	23°C	DIN 53 504	MPa	≥ 22	psi ≥ 3190
tensile strength	23°C	DIN 53 504	MPa	≥ 45	psi ≥ 6525
elongation at break	23°C	DIN 53 504	%	≥ 450	% ≥ 450
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 80	lbf/inch ≥ 450
spec. gravity	23°C	ISO 1183	kg/m ³	1130	g/cm ³ 1,13
abrasion	23°C	DIN 53 516	mm ³	20	mm ³ 20
compression set	*	ISO 815	%	≤ 30	% ≤ 30
compression set	**	ISO 815	%	≤ 35	% ≤ 35
minimum service temperature			°C	-37	°F -35
maximum service temperature			°C	110	°F 230

* 24h 70°C 25% def.

** 24h 100°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

Foodstuff approval: in Accordance with FDA CFR 21-177.2600

Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

DMH GmbH

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