

DMH 109 HPU nature

Mechanical, Physical and Thermal Properties

thermoplastic polyurethane with resistance to hydrolysis

PROPERTIES	CONDITION	STANDARD	UNIT	UNIT		JNIT	
Colour				nature		nature	
hardness	23°C	ISO 868	Shore A	95 ± 2	Shore A	95 ± 2	
hardness	23°C/3 sek.	ISO 868	Shore D	48 ± 3	Shore D	48 ± 3	
hardness	23°C/15 sek.	ISO 868	Shore D	45 ± 3	Shore D	45 ± 3	
modulus 100%	23°C	DIN 53 504	MPa	≥ 15	psi	≥ 2175	
modulus 300 %	23°C	DIN 53 504	MPa	≥ 28	psi	≥ 4160	
tensile strength	23°C	DIN 53 504	MPa	≥ 50	psi	≥ 7250	
elongation at break	23°C	DIN 53 504	%	≥ 350	%	≥ 350	
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 110	lbf/inch	≥ 570	
spec. gravity	23°C	ISO 1183	kg/m³	1200	g/cm ³	1,2	
abrasion		DIN 53 516	mm ³	17	mm ³	17	
compression set	*	ISO 815	%	≤ 27	%	≤ 27	
compression set	**	ISO 815	%	≤33	%	≤ 33	
minimum service temperature			°C	-20	°F	-4	
maximum service temperature			°C	115	°F	240	

^{* 24}h 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

Foodstuff approval	FDA-approved, 10/2011 EC
revision: 12-2022	

Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

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