DMH
SOLUTIONS FOR SEALS

DMH 180 PU 93

Mechanical, Physical and Thermal Properties

thermoplastic polyurethane

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				green		green
hardness	23°C	ISO 868	Shore A	95 ± 3	Shore A	95 ± 3
hardness	23°C/3 sek.	ISO 868	Shore D	47 ± 3	Shore D	47 ± 3
hardness	23°C/15 sek.	ISO 868	Shore D	45 ± 3	Shore D	45 ± 3
modulus 100%		DIN 53 504	MPa	≥ 13	psi	≥ 1880
modulus 300 %	23°C	DIN 53 504	MPa	≥ 23	psi	≥ 3330
tensile strength	23°C	DIN 53 504	MPa	≥ 50	psi	≥ 7250
elongation at break	23°C	DIN 53 504	%	≥ 450	%	≥ 450
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 100	lbf/inch	≥ 570
spec. gravity	23°C	ISO 1183	kg/m³	1200	g/cm³	1,2
abrasion		DIN 53 516	mm³	35	mm³	35
compression set	*	ISO 815	%	≤ 25	%	≤ 25
compression set	**	ISO 815	%	≤ 33	%	≤ 33
minimum service temperature			°C	-30	°F	-22
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
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

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IQNet CERTIFIED MANAGEMENT SYSTEM
qualityaustria SYSTEM CERTIFIED
ISO 9001:2015 No.04427/0