

MATERIAL DATASHEET

DMH 351 FPM FDA

Mechanical, Physical and Thermal Properties

Fluoro Rubber

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				brown		brown
hardness	23°C /3 sek.	ISO 868	Shore A	80 ± 5	Shore A	80 ± 5
hardness	23°C /15 sek.	ISO 868	Shore A	77 ± 5	Shore A	77 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 6	psi	≥ 870
tensile strength	23°C	DIN 53 504	MPa	≥ 8	psi	≥ 1160
elongation at break	23°C	DIN 53 504	%	≥ 150	%	≥ 150
tear strength	23°C	DIN ISO 34-1	kN/m		lbf/inch	
spec. gravity	23°C	ISO 1183	kg/m ³	2400	g/cm ³	2,40
rebound elasticity	23°C	DIN 53 512	%	7	%	7
abrasion	23°C	DIN 53 516	mm ³	220	mm ³	220
compression set	*	ISO 815	%	≤ 7	%	≤ 7
compression set	**	ISO 815	%	≤ 9	%	≤ 9
compression set	***	ISO 815	%	≤ 14	%	≤ 14
minimum service temperature			°C	-20	°F	-4
maximum service temperature			°C	220	°F	428
temp. max water/steam			°C		°F	
temp. max hot air, short			°C	300	°F	572

* 24h 70°C 25% def. ** 24h 100°C 25% def. *** 24h 150°C 25% def.

Chemical Properties

Resistant to: fats, crude oil, mineral oil, gasoline, aliphatic and aromatic hydrocarbons

Not resistant to: glycols, ketones, most fluids containing amines and water/steam

Foodstuff approval	FDA compliant in it's active substances to: - the Positive List for water-based foods under the Section 177.2600, CFR 21, "Rubber Articles Intended For Repeated Use", of the Food and Drug Administration (FDA), USA - the Positive List for fatty foods (including milk and cooking oil), under the Section 177.2600, § 21 CFR "Rubber Articles Intended For Repeated Use", of the Food and Drug Administration (FDA), USA.
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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

