

## DMH FPM FDA Fluoro Rubber Mechanical, Physical and Thermal Properties

properties	condition	standard	unit	unit	unit
colour				<b>brown</b>	<b>brown</b>
hardness	23°C	ISO 868	Shore A	<b>85 ± 5</b>	Shore A <b>85 ± 5</b>
modulus 100%	23°C	DIN 53 504	MPa	<b>≥ 6</b>	psi <b>≥ 870</b>
tensile strength	23°C	DIN 53 504	MPa	<b>≥ 8</b>	psi <b>≥ 1160</b>
elongation at break	23°C	DIN 53 504	%	<b>≥ 150</b>	% <b>≥ 150</b>
tear strength	23°C	DIN ISO 34-1	kN/m	<b>≥</b>	lbf/inch <b>≥</b>
spec. gravity	23°C	ISO 1183	kg/m <sup>3</sup>	<b>2440</b>	g/cm <sup>3</sup> <b>2,44</b>
rebound elasticity	23°C	DIN 53 512	%	<b>7</b>	% <b>7</b>
abrasion	23°C	DIN 53 516	mm <sup>3</sup>	<b>220</b>	mm <sup>3</sup> <b>220</b>
compression set	*	ISO 815	%	<b>≤ 7</b>	% <b>≤ 7</b>
compression set	**	ISO 815	%	<b>≤ 4</b>	% <b>≤ 4</b>
compression set	***	ISO 815	%	<b>≤ 14</b>	% <b>≤ 14</b>
minimum service temperature			°C	<b>-20</b>	°F <b>-4</b>
maximum service temperature			°C	<b>220</b>	°F <b>428</b>
temp. max water/steam			°C		°F
temp. max hot air			°C	<b>300 short</b>	°F <b>572 short</b>

\* 24h 70°C 25% def.

\*\* 24h 100°C 25% def.

\*\*\* 24h 175°C 25% def.

### Chemical Properties

Copolymer, based on fluoro

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

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

Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

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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.