

## EPDM FDA

### Mechanical, Physical and Thermal Properties

Ethylene propylene diene rubber

properties	condition	standard	unit		unit	
colour				black		black
hardness	23°C/3 sec.	ISO 868	Shore A	85 ± 5	Shore A	85 ± 5
hardness	23°/15 sec.	ISO 868	Shore A	84 ± 5	Shore A	84 ± 5
modulus 100%	23°C	DIN 53 504	MPa		psi	
tensile strength	23°C	DIN 53 504	MPa	≥ 10	psi	≥ 1450
elongation at break	23°C	DIN 53 504	%	≥ 85	%	≥ 85
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 4	lbf/inch	≥ 23
spec. gravity	23°C	ISO 1183	kg/m <sup>3</sup>	1180	g/cm <sup>3</sup>	1,18
rebound elasticity	23°C	DIN 53 512	%	40	%	40
abrasion	23°C	DIN 53 516	mm <sup>3</sup>	160	mm <sup>3</sup>	160
compression set	*	ISO 815	%	≤ 10	%	≤ 10
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compression set	***	ISO 815	%		%	
minimum service temperature			°C	-45	°F	-49
maximum service temperature			C	130	°F	266
temp. max water/steam			°C	130	°F	266
temp. max hot air			°C	150	°F	302

\* 24h 70°C 25% def.

\*\* 24h 100°C 25% def.

\*\*\* 24h 150°C 25% def.

## CHEMICAL PROPERTIES

Copolymer, based on ethylene, propylene and diene

Resistant to: (hot) water, acids, bases, ketones, HFC- and HFD-fluids, lyes

Not resistant to: aliphatic, aromatic and chlorinated hydrocarbons, greases, fuels, brake fluids based on polyglycols

Foodstuff approval: FDA compliant Maximum recommended service temperature (FDA applications): 90°C

Detailed information concerning chemical resistance see Chemical Resistance Guide

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