

## EPDM WHITE FDA

### Mechanical, Physical and Thermal Properties

Ethylene propylene diene rubber

properties	condition	standard	unit	unit	unit
colour				white	white
hardness	23°C/3 sec.	ISO 868	Shore A	82 ± 5	Shore A 82 ± 5
hardness	23°C/15 sec.	ISO 868	Shore A	82 ± 5	Shore A 82 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 4	psi ≥ 580
tensile strength	23°C	DIN 53 504	MPa	≥ 7	psi ≥ 1015
elongation at break	23°C	DIN 53 504	%	≥ 160	% ≥ 160
tear strength	23°C	DIN ISO 34-1	kN/m	≥	lbf/inch ≥
spec. gravity	23°C	ISO 1183	kg/m <sup>3</sup>	1220	g/cm <sup>3</sup> 1,22
rebound elasticity	23°C	DIN 53 512	%	50	% 50
abrasion	23°C	DIN 53 516	mm <sup>3</sup>	291	mm <sup>3</sup> 291
compression set	*	ISO 815	%	≤ 25	% ≤ 25
compression set	**	ISO 815	%	≤ 30	% ≤ 30
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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