

## EPDM FDA BLUE

### Mechanical, Physical and Thermal Properties

Ethylene propylene diene rubber

properties	condition	standard	unit	unit	unit
colour				blue	blue
hardness	23°C	ISO 868	Shore A	81 ± 5	Shore A 81 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 5	psi ≥ 725
tensile strength	23°C	DIN 53 504	MPa	≥ 9	psi ≥ 1305
elongation at break	23°C	DIN 53 504	%	≥ 140	% ≥ 140
tear strength	23°C	DIN ISO 34-1	kN/m		lbf/inch
spec. gravity	23°C	ISO 1183	kg/m <sup>3</sup>	1120	g/cm <sup>3</sup> 1,12
rebound elasticity	23°C	DIN 53 512	%	46	% 46
abrasion	23°C	DIN 53 516	mm <sup>3</sup>	177	mm <sup>3</sup> 177
compression set	*	ISO 815	%	≤ 14	% ≤ 14
compression set	**	ISO 815	%	≤ 15	% ≤ 15
compression set	***	ISO 815	%		%
minimum service temperature			°C	-30	°F -22
maximum service temperature			°C	130	°F 266
temp. max water/steam			°C	130	°F 266
temp. max hot air			°C		°F

\* 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 1935/2004 EC

Detailed information concerning chemical resistance see Chemical Resistance Guide

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