

EPDM white FDA  
Mechanical, Physical and Thermal Properties

Ethylene propylene diene rubber

properties	condition	standard	unit		unit	
colour				white		white
hardness	23°C	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	≥ 8	psi	≥ 1160
elongation at break	23°C	DIN 53 504	%	≥ 280	%	≥ 280
tear strength	23°C	DIN ISO 34-1	kN/m	≥	lbf/inch	≥
spec. gravity	23°C	ISO 1183	kg/m <sup>3</sup>	1230	g/cm <sup>3</sup>	1,23
rebound elasticity	23°C	DIN 53 512	%	44	%	44
abrasion	23°C	DIN 53 516	mm <sup>3</sup>	0	mm <sup>3</sup>	0
compression set	*	ISO 815	%	≤ 35	%	≤ 35
compression set	**	ISO 815	%		%	
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