

E02 - EPDM FDA white

Ethylene propylene diene rubber

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				white		white
hardness	23°C/3 sek.	ISO 868	Shore A	82 ± 5	Shore A	82 ± 5
hardness	23°C/15 sek	ISO 868	Shore A	82 ± 5	Shore A	82 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 5	psi	≥ 725
tensile strength	23°C	DIN 53 504	MPa	≥ 7	psi	≥ 1015
elongation at break	23°C	DIN 53 504	%	≥ 150	%	≥ 150
tear strength		DIN ISO 34-1	kN/m	3,1	lbf/inch	17,7
spec. gravity	23°C	ISO 1183	kg/m ³	1270	g/cm ³	1,27
rebound elasticity	23°C	DIN 53 512	%	50	%	50
abrasion	23°C	DIN ISO 4649 A	mm ³	368	mm ³	368
compression set	*	ISO 815	%	≤ 23	%	≤ 23
compression set	**	ISO 815	%	≤ 27	%	≤ 27
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