

EPDM KTW

Mechanical, Physical and Thermal Properties

Ethylene propylene diene rubber

properties	condition	standard	unit	unit	unit
colour				black	black
hardness ¹⁾	23°C/3 sec.	ISO 868	Shore A	81 ± 5	Shore A 81 ± 5
hardness ¹⁾	23°C/15 sec.	ISO 868	Shore A	77 ± 5	Shore A 77 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 5	psi ≥ 725
tensile strength	23°C	DIN 53 504	MPa	≥ 12	psi ≥ 1740
elongation at break	23°C	DIN 53 504	%	150	% 150
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 8	lbf/inch ≥ 45
spec. gravity	23°C	ISO 1183	kg/m ³	1170	g/cm ³ 1,17
rebound elasticity	23°C	DIN 53 512	%	41	% 41
abrasion	23°C	DIN 53 516	mm ³		mm ³
compression set	²⁾	ISO 815	%	≤ 15	% ≤ 15
compression set	³⁾	ISO 815	%		%
compression set	⁴⁾	ISO 815	%		%
minimum service temperature			°C	-40	°F -40
maximum service temperature			°C	130	°F 266
temp. max water/steam			°C	130	°F 266
temp. max hot air			°C	150	°F 302

¹⁾ For rods, a tolerance range of $^{+4}/_{-6}$

²⁾ 24h 70°C 25% def.

³⁾ 24h 100°C 25% def.

⁴⁾ 24h 150°C 25% def.

CHEMICAL PROPERTIES

Copolymer, based on ethylene, propylene and diene

Resistant to: (hot) water, acids, bases, ketones, lyes, brake fluids based on polyglycols

Not resistant to: aliphatic, aromatic and chlorinated hydrocarbons, greases and fuels

Foodstuff approval: complies in composition to the Elastomer Guidelines of the UBA (KTW) recommendation 1.3.13

Maximum recommended service temperature (Elastomer Guidelines of the UBA): 60°C

Detailed information concerning chemical resistance see Chemical Resistance Guide

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