

E06 - EPDM KTW Black

Ethylene propylene diene rubber

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				black		black
hardness	23°C /3 sek.	ISO 868	Shore A	85 ± 5	Shore A	85 ± 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	≥ 11	psi	≥ 1595
elongation at break	23°C	DIN 53 504	%	110	%	110
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 7	lbf/inch	≥ 40
spec. gravity	23°C	ISO 1183	kg/m ³	1270	g/cm ³	1,27
rebound elasticity	23°C	DIN 53 512	%	38	%	39
abrasion	23°C	DIN 53 516	mm ³		mm ³	
compression set	*	ISO 815	%	≤ 15	%	≤ 15
compression set	**	ISO 815	%		%	
compression set	***	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, short			°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, lyes, brake fluids based on polyglycols

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

Foodstuff approval

complies in composition to the Elastomerleitlinie des UBA (KTW) recommendation 1.3.13
Maximum recommended service temperature (Elastomerleitlinie des UBA): 60°C