

RHONDAMA LIMITED EPDMKTW

EPDM KTW FDA Hardness 85° Shore A Black

Ethylene propylene diene rubber

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Black		Black
Hardness	23°C	ISO 868	Shore A	85±5	Shore A	85±5
Modulus 100%	23°C	DIN 53 504	MPa	≥9	Psi	≥1300
Tensile strength	23°C	DIN 53 504	MPa	≥11	Psi	≥1600
Elongation at break	23°C	DIN 53 504	%	≥130	%	≥130
Tear strength	23°C	DIN 53 515	kN/m		Ibf/inch	
Spec. gravity	23°C	ISO 1183	Kg/m ³	1230	g/cm ³	1,23
Rebound elasticity	23°C	DIN 53 512	%	≥37	%	≥37
Abrasion	23°C	DIN 53 516	mm ³	140	mm ³	140
Compression set	*	ISO 815	%	≤9	%	≤9
Compression set	**	ISO 815	%	≤14	%	≤14
Compression set	***	ISO 815	%		%	
Minimum service temperature			°C	-45	°F	-49
Maximum service temperature			°C	150	°F	302
Temp maximum water steam			°C	150	°F	302
Temp maximum hot air			°C	180	°F	356
				short		short
* 24 h 70°C 25% deflection ** 24h 100°C 25% deflection *** 24h 150°C 25% deflection						

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

Detailed information concerning chemical resistance see Rhondama Compatibility Chart

Foodstuff approval: KTW Approval for drinking water according to the recommendation of the German Regulations on Commodities D 1.3.13

FDA According to § 177.2600, CFR 21 "Rubber Articles Intended for Repeated Use"