



EPDM KTW FDA Härte 85 Shore A schwarz

EPDM KTW FDA hardness 85 shore A black

Ethylene propylene diene rubber

Mechanische, physikalische und thermische Eigenschaften

Mechanical, physical and thermal properties

Eigenschaften properties	Bedingung condition	Norm standard	Einheit unit			
Farbe colour				schwarz black		schwarz black
Härte hardness	23°C	ISO 868	shore A	85 ± 5	shore A	85 ± 5
Spannungswert/Modul 100 % modulus 100 %	23°C	DIN 53 504	MPa	≥ 9	psi	≥ 1300
Reißfestigkeit tensile strength	23°C	DIN 53 504	MPa	≥ 11	psi	≥ 1600
Reißdehnung elongation at break	23°C	DIN 53 504	%	≥ 130	%	≥ 130
Weiterreißwiderstand tear strength	23°C	DIN 53 515	kN/m		lbf/inch	
Spezifisches Gewicht spec. gravity	23°C	ISO 1183	kg/m ³	1230	g/cm ³	1,23
Reißdehnung rebound elasticity	23°C	DIN 53 512	%	≥ 37	%	≥ 37
Abrieb abrasion	23°C	DIN 53 516	mm ³	140	mm ³	140
Druckverformungsrest DVR compression set	*	ISO 815	%	≤ 9	%	≤ 9
Druckverformungsrest DVR compression set	**	ISO 815	%	≤ 14	%	≤ 14
Druckverformungsrest DVR compression set	***	ISO 815	%		%	
Min. Einsatztemperatur minimum service temperature			°C	-45	°F	-49
Max. Einsatztemperatur maximum service temperature			°C	150	°F	302
Max. Einsatztemperatur Wasserdampf temp maximum water steam			°C	150	°F	302
Max. Einsatztemperatur Heißluft temp maximum hot air			°C	180 short	°F	356 short
* 24h 70°C 25% Verformung * 24h 70°C 25% deflection	** 24h 100°C 25% Verformung ** 24h 100°C 25% deflection	*** 24h 150°C 25% Verformung *** 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 RDA Chemical Resistance Guide

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"