



H-NBR FDA Härte 85 Shore A schwarz

H-NBR FDA hardness 85 shore A black

Highly saturated nitrile butadiene 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 ± 2	shore A	85 ± 2
Spannungswert/Modul 100 % modulus 100 %	23°C	DIN 53 504	MPa	≥ 6,4	psi	≥ 928
Reißfestigkeit tensile strength	23°C	DIN 53 504	MPa	≥ 8,9	psi	≥ 1290
Reißdehnung elongation at break	23°C	DIN 53 504	%	≥ 229	%	≥ 229
Weiterreißwiderstand tear strength	23°C	DIN 53 515	kN/m	≥ 30	lbf/inch	≥ 170
Spezifisches Gewicht spec. gravity	23°C	ISO 1183	kg/m ³	1320	g/cm ³	1,32
Abrieb abrasion	23°C	DIN 53 516	mm ³	130	mm ³	130
Druckverformungsrest DVR compression set	*	ISO 815	%		%	
Druckverformungsrest DVR compression set	**	ISO 815	%	≤ 32	%	≤ 32
Druckverformungsrest DVR compression set	***	ISO 815	%		%	
Min. Einsatztemperatur minimum service temperature			°C	-20	°F	-4
Max. Einsatztemperatur maximum service temperature			°C	150	°F	302
Max. Einsatztemperatur Wasserdampf temp maximum water steam			°C	120	°F	248
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 butadiene and acrylonitrile

Resistant to: oil, petrol, hot water, hot air, ozone, crude oil

Not resistant to: conc. acids, conc. lyes, polare solvents

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"