



FPM FDA Härte 85 Shore A braun
 FPM FDA hardness 85 shore A brown
 Fluorocarbon rubber

Mechanische, physikalische und thermische Eigenschaften
 Mechanical, physical and thermal properties

Eigenschaften properties	Bedingung condition	Norm standard	Einheit unit			
Farbe colour				braun brown		braun brown
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	≥ 1305
Reißfestigkeit tensile strength	23°C	DIN 53 504	MPa	≥ 10	psi	≥ 1450
Reißdehnung elongation at break	23°C	DIN 53 504	%	≥ 150	%	≥ 150
Weiterreißwiderstand tear strength	23°C	DIN 53 515	kN/m		lbf/inch	
Spezifisches Gewicht spec. gravity	23°C	ISO 1183	kg/m ³	2490	g/cm ³	2,49
Reißdehnung rebound elasticity	23°C	DIN 53 512	%		%	
Abrieb abrasion	23°C	DIN 53 516	mm ³		mm ³	
Druckverformungsrest DVR compression set	*	ISO 815	%		%	
Druckverformungsrest DVR compression set	**	ISO 815	%	≤ 4	%	≤ 4
Druckverformungsrest DVR compression set	***	ISO 815	%		%	
Min. Einsatztemperatur minimum service temperature			°C	-20	°F	-35
Max. Einsatztemperatur maximum service temperature			°C	220	°F	428
Max. Einsatztemperatur Wasserdampf temp maximum water steam			°C	150	°F	302
Max. Einsatztemperatur Heißluft temp maximum hot air			°C	300 short	°F	572 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 hexafluoropropylene and tetrafluoroethylene

Resistant to: greases, crude oil, gasoline, aliphatic and aromatic hydrocarbons

Not resistant to: water, steam, glycols, ketones and most fluids containing amines

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"