



Material data sheet 82 Shore A

FPM (VITON)-brown

Resistant to: Silicone oils and fats, synthetic aircraft engine oils, mineral oil and mineral fats, very good resistance to ozone, aging and weather, solvents such as trichloroethylene and by, acids and bases (at low temperatures).

Not resistant to: aromatic mineral oils

Properties	Condition	Standard	Unit			
Colour				brown		
Hardness	23°C	ISO 868	Shore A	82+/-5	Shore A	82+/-5
Modulus 100%	23°C	DIN 53 504	MPa	6	Psi	870
Tensile strength	23°C	DIN 53 504	MPa	9	Psi	1305
Elongation at break	23°C	DIN 53 504	%	200	%	200
Tear strength	23°C	DIN ISO 34-1 Methode B	kN/m	20	Lbf/inch	114
Spec. Gravity	23°C	ISO 1183	kg/m³	2530	g/cm³	2,53
Rebound elasticity	23°C	DIN 53 512	%	7	%	7
Abrasion	23°C	DIN 53 516	mm³	175	mm³	175
Compression set	*	ISO 815	%	17	%	17
Compression set	**	ISO 815	%	10	%	10
Compression set	***	ISO 815	%	15	%	15
Minimum service temperature			°C	-20	°F	-4
Maximum service temperature			°C	220	°F	428
Temp maximum water steam			°C		°F	
Temp maximum hot air			°C	300 short	°F	572 short
*24h 70°C 25% deflection	**24h 100°C 25% deflection			***24h 150°C 25% deflection		

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

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