

FPM Hardness 85° Shore A Brown

Fluorocarbon rubber

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Brown		Brown
Hardness	23°C	ISO 868	Shore A	85±5	Shore A	85±5
Modulus 100%	23°C	DIN 53 504	MPa	≥8	Psi	≥1160
Tensile strength	23°C	DIN 53 504	MPa	≥10	Psi	≥1450
Elongation at break	23°C	DIN 53 504	%	≥200	%	≥200
Tear strength	23°C	DIN 53 515	kN/m	≥6	Ibf/inch	≥35
Spec. gravity	23°C	ISO 1183	Kg/m ³	2510	g/cm ³	2,51
Rebound elasticity	23°C	DIN 53 512	%	7	%	7
Abrasion	23°C	DIN 53 516	mm ³	200	mm ³	200
Compression set	*	ISO 815	%	≤7	%	≤7
Compression set	**	ISO 815	%	≤8	%	≤8
Compression set	***	ISO 815	%	≤9	%	≤9
Minimum service temperature			°C	-20	°F	-4
Maximum service temperature			°C	220	°F	428
Temp maximum water steam			°C	150	°F	302
Temp maximum hot air			°C	300 short	°F	572 short
* 24 h 70°C 25% deflection ** 24h 100°C 25% deflection *** 24h 150°C 25% deflection						

Chemical Properties

Copolymere, based on hexafluoropropylene and tetrafluoroethylene

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

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

Detailed information concerning chemical resistance see Rhondama Compatibility Chart