

# RHONDAMA LIMITED FPM FDA

## FPM FDA 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	≥9	Psi	≥1305
Tensile strength	23°C	DIN 53 504	MPa	≥10	Psi	≥1450
Elongation at break	23°C	DIN 53 504	%	≥150	%	≥150
Tear strength	23°C	DIN 53 515	kN/m		Ibf/inch	
Spec. gravity	23°C	ISO 1183	Kg/m <sup>3</sup>	2490	g/cm <sup>3</sup>	2,49
Rebound elasticity	23°C	DIN 53 512	%		%	
Abrasion	23°C	DIN 53 516	mm <sup>3</sup>		mm <sup>3</sup>	
Compression set	*	ISO 815	%		%	
Compression set	**	ISO 815	%	≤4	%	≤4
Compression set		ISO 815	%		%	
Minimum service temperature			°C	-20	°F	-35
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

**Copolymer, 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*

**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"