

V03 - FPM FDA marrone

Fluoro Rubber

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				*		brown
hardness	23°C/3 sek.	ISO 868	Shore A	82 ± 5	Shore A	82 ± 5
hardness	23°C /15 sek.	ISO 868	Shore A		Shore A	
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	%	≥ 130	%	≥ 130
tear strength	23°C	DIN ISO 34-1	kN/m	5,4	lbf/inch	30,8
spec. gravity	23°C	ISO 1183	kg/m ³	2540	g/cm ³	2,54
rebound elasticity	23°C	DIN 53 512	%	7	%	7
abrasion	23°C	DIN 53 516	mm ³	261	mm ³	261
compression set	*	ISO 815	%	≤ 17	%	≤ 17
compression set	**	ISO 815	%	≤ 17	%	≤ 17
compression set	***	ISO 815	%		%	
minimum service temperature			°C	-20	°F	-4
maximum service temperature			°C	220	°F	428
temp. max water/steam			°C		°F	
temp. max hot air			°C		°F	

* 24h 70°C 25% def. ** 24h 100°C 25% def. *** 24h 150°C 25% def.

Chemical Properties

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

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

Foodstuff approval

FDA compliant in it's active substances to:

- the Positive List for water-based foods under the Section 177.2600, CFR 21, "Rubber Articles Intended For Repeated Use", of the Food and Drug Administration (FDA), USA
- the Positive List for fatty foods (including milk and cooking oil), under the Section 177.2600, § 21 CFR "Rubber Articles Intended For Repeated Use", of the Food and Drug Administration (FDA), USA.