DECLARATION OF CONFORMITY

MOVET FPM BLUE FDA

FPM FLUOROCARBON RUBBER

Name:	MOVET FPM Blue FDA
Base polymer:	Copolymer, based on fluorine
Colour:	blue
Hardness (Shore A):	80 ± 5
Density (g/cm³):	2,53 ± 0,03

Meets the requirements of the following regulations on materials and articles intended to come into contact with food:

- Regulation (EC) No. 1935/2004
- Regulation (EC) No. 2023/2006 (GMP – Good Manufacturing Practice)

The materials and applications listed above are included in Article 5, Annex I of the aforementioned regulations.
They are therefore not new and are not considered "active" or "intelligent" materials or substances.
Accordingly, no application for new substances pursuant to Articles 8 and 23 of the regulation will be submitted.

We declare, in accordance with Article 16 of the regulation, that the mentioned material complies with the requirements of the regulation, and that we are able to provide the corresponding proof of compliance.

We confirm that the above-mentioned materials comply with Regulation (EC) No. 1935/2004 and, under normal or reasonably foreseeable conditions of use, do not transfer constituents to food in quantities that could endanger human health or cause an unacceptable change in the final product.

As FKM materials are not subject to specific national regulations, it is permissible to apply generally recognized scientific principles. In this case, FDA 177.2600 was used to demonstrate compliance with EU Regulation 1935/2004.

These compounds have been manufactured in accordance with the principles of Good Manufacturing Practice as defined in Regulation (EC) No. 2023/2006.

HADI GmbH **Revision: 03/2017**

MOVET® / *A brand by HADI GmbH*
Fördertechnik Komponenten Stuttgarter Straße 11 73614 Schorndorf / Germany Tel.: +49 7181 980 32 00 service@movet.de **www.movet.de**

FDA CONFIRMATION

MOVET FPM BLUE FDA

FPM FLUOROCARBON RUBBER

Name:	MOVET FPM Blue FDA
Base polymer:	Copolymer, based on fluorine
Colour:	blue
Hardness (Shore A):	80 ± 5
Density (g/cm3):	2,53 ± 0,03
Corresponds in composition to:	the Positive List according to § 177.2600, CFR 21, 'Rubber Articles Intended For Repeated Use', of the Food and Drug Administration (FDA). (USA)

With sufficient vulcanisation, the rubber products can come into contact with dry foodstuffs. Additional requirements are necessary for liquid and fatty foods. These must be checked. The products must be thoroughly cleaned before use in accordance with the above requirements.

Dirk Kramer
Managing Director/CEO

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TSE CONFIRMATION

MOVET FPM BLUE FDA

FPM FLUOROCARBON RUBBER

Name:	MOVET FPM Blue FDA
Base polymer:	Copolymer, based on fluorine
Colour:	blue
Hardness (Shore A):	80 ± 5
Density (g/cm3):	2,53 ± 0,03
Corresponds in composition to:	The European Union TSE Guideline EMEA/410/01

Dirk Kramer
Managing Director/CEO

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MOVET TPU95 blue FDA

POLYURETHANE SEALING MATERIAL

Mechanical, physical and thermal properties:

PROPERTIES	CONDITION	NORM	UNIT		UNIT	
Colour				blue		blue
Hardness	23 °C	ISO 868	Shore A	95 ± 2	Shore A	95 ± 2
Hardness	23 °C	ISO 868	Shore D	48 ± 3	Shore D	48 ± 3
Modulus 100%	23 °C	DIN 53 504	MPa	≥ 15	psi	≥ 2175
Modulus 300%	23 °C	DIN 53 504	MPa	≥ 28	psi	≥ 4160
Tensile strength	23 °C	DIN 53 504	MPa	≥ 50	psi	≥ 7250
Elongation at break	23 °C	DIN 53 504	%	≥ 350	%	≥ 350
Tear strength	23 °C	DIN ISO 34-1	kN/m	≥ 110	lbf/inch	≥ 570
Specific gravity	23 °C	ISO 1183	kg/m³	1200	g/cm³	1,2
Abrasion		DIN 53 516	mm³	17	mm³	17
Compression set	*	ISO 815	%	≤ 27	%	≤ 27
Compression set	**	ISO 815	%	≤ 33	%	≤ 33
Lower application temperature			°C	-20	°F	- 4
Upper application temperature			°C	115	°F	240

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

Chemical properties

Material: Copolymer based on aromatic isocyanates and diols

Resistant to: Oils, hot water, hot air, ozone, synthetic and natural esters

Not resistant to: conc. acids and bases, conc. alcohols and aromatic solvents

Food contact approval: EU food contact compliance according to German Consumer Goods Ordinance (Bedarfsgegenständeverordnung) 1935/2004 EC.
FDA-approved type available.

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MOVET FPM BLUE FDA

FPM FLUOROCARBON RUBBER

Material: Fluorocarbon rubber

Specification: 3A Sanitary Class I

TEST CHARACTERISTICS	UNIT	TARGET VALUES	ACTUAL VALUES
Tear resisitance (S2)	MPa	≥ 8,3	9,6
Elongation at break	%	≥ 100	240
Hardness	Shore A		80
RESISTANCE AGAINST HOT AIR		TIME: 166 h	TEMPERATURE: 100 °C
Change in tensile strength (S2)	%	/	-7,3
Change in elongation at break	%	/	0,7
Change in hardness	Shore A	± 10	0
Visual changes		No visual changes observed	
RESISTANCE AGAINST MILK FAT		TIME: 22 h	TEMPERATURE: 70 °C
Change in hardness	Shore A	± 5	± 0
Change in weight	%	± 5	0,1
Change in volume	%	± 5	0,1
Visual changes		No visual changes observed	
RESISTANCE AGAINST DISTILLED WATER		TIME: 22 h	TEMPERATURE: 70 °C
Change in hardness	Shore A	± 5	-2
Change in weight	%	± 5	0,5
Change in volume	%	± 5	0,2
Visual changes		No visual changes observed	
RESISTANCE AGAINST 0,5% HNO^3		TIME: 22 h	TEMPERATURE: 82 °C
Change in hardness	Shore A	± 5	-4
Change in weight	%	± 5	0,5
Change in volume	%	± 5	0,2
Visual changes		No visual changes observed	

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3-A CERTIFICATE

TEST CHARACTERISTICS	UNIT	TARGET VALUES	ACTUAL VALUES
RESISTANCE AGAINST ALKALINE CLEANER (ACC. 3A SANITARY)		TIME: 22 h	TEMPERATURE: 82 °C
Change in hardness	Shore A	± 5	-2
Change in weight	%	± 5	0,7
Change in volume	%	± 5	0
Visual changes		No visual changes observed	
RESISTANCE AGAINST CHLORINE SANITIZER		TIME: 22 h	TEMPERATURE: 70 °C
Change in hardness	Shore A	± 5	-2
Change in weight	%	± 5	0,6
Change in volume	%	± 5	0,2
Visual changes		No visual changes observed	

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