

DECLARATION OF CONFORMITY

MOVET TPU95 blue FDA

POLYURETHANE SEALING MATERIAL

Name:	MOVET TPU95 blue FDA
Base polymer:	Copolymer of diisocyanate and diols
Colour:	blue
Hardness (Shore A):	95

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

- Regulation (EC) No 10/2011
- Regulation (EC) No 1935/2004
- Regulation (EC) 2023/2006 (GMP, Good Manufacturing Practice)

Overall Migration Limits (OML):

Migration tests were carried out in accordance with the requirements of Regulation (EC) 10/2011.

Standard test conditions with food simulant A: Ethanol 10 % by volume	OM3, 2h, 70 °C
Standard test conditions with food simulant B: Acetic acid 3 % by weight	OM3, 2h, 70 °C
Standard test conditions with food simulant D2: Any vegetable oil with less than 1 % unsaponifiable matter.	OM3, 2h, 70°C, 4h 70°C, 6h 70°C
Tenax (E):	OM3, 2h, 70°C

The total migration was below the required limit of 10 mg/dm².

The total migration as well as the specific migrations are below the legal limit when used according to specification.

Restrictions are set for the following ingredients:

	RESULT	LIMIT VALUE (*)
Free isocyanates (as NCO) (mg/kg in the article)	not detectable < 0.25 mg/kg in the article of consumption	QM(T)= 1 mg/kg in the consumer product

(*) Regulation (EC) No 10/2011 as amended.

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Specifications on the intended use or restrictions:

The above material is suitable for heating to 70°C for up to 2 hours or heating to 100°C for up to 15 min (with all aqueous, acidic and alcoholic foods with an alcohol content of up to 10% by volume).

The above-mentioned material is suitable for reusable contact with all fatty and alcoholic foodstuffs as well as milk and milk products provided that a contact time of 30 min at a contact temperature of 70°C is not exceeded.

The user must satisfy himself of the suitability of the product beyond the requirements of the directives.

Information on the use of dual-use substances:

Dual-use additives	
Substances subject to restriction in food	None

The above product does not contain dual-use additives as defined in Regulation (EC) No 1333/2008 (food additives) and Regulation (EC) No 1334/2008 (flavourings), as amended

HADI GmbH

Revision: 12/2020

Standard references correspond to the issue status of the data sheet of our raw material supplier. All data are average values. Our recommendations are made to the best of our knowledge. However, they are non-binding and exclude any liability for damages and disadvantages of any kind, also with regard to third party property rights. They do not exempt the buyer from carrying out his own tests and inspections.

The above information is given to the best of our knowledge. However, it is only non-binding information and does not release you from your own examination of the products supplied by us for their suitability for the intended processes and purposes. The application, use and processing of the products are beyond our control and are therefore exclusively your responsibility. Should liability nevertheless come into question, this is limited for all damages to the value of the goods supplied by us and used by you. This notice is not subject to the amendment service.

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Name:	MOVET TPU95 blue FDA
Base polymer:	Copolymer of diisocyanate and diols
Colour:	blue
Hardness (Shore A):	95
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)

In order to fully comply with Regulation 10/2011/EC, the finished part must be tested according to the specifications for total migration and specific migration with the respective simulants and time/temperature specifications. The global migrations must generally be checked on the finished part by the manufacturer or distributor.

TECHNICAL DATA SHEET

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/m ³	1200	g/cm ³	1,2
Abrasion		DIN 53 516	mm ³	17	mm ³	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.

HADI GmbH

Revision: 04/2017

The referenced standards correspond to the version valid at the time of issue of the data sheet provided by our raw material supplier. All technical data are average values. Our recommendations are given to the best of our knowledge. However, they are non-binding and exclude any liability for damages or disadvantages of any kind, including with regard to third-party intellectual property rights. They do not release the purchaser from the obligation to carry out their own tests and trials.

The above information is provided to the best of our knowledge but is intended only as a non-binding guideline. It does not relieve you of the responsibility to verify the suitability of the products we supply for your intended processes and applications. The use, application, and processing of our products are beyond our control and are therefore your sole responsibility. Should liability arise nonetheless, it is limited to the value of the goods we have supplied and which you have used.
This information is not subject to updates.

MOVET TPU95 blue FDA

SEALING MATERIAL MADE OF POLYURETHANE

Products: Elastomere
Trade names: MOVET TPU95 blue FDA

Dual-Use additives

Substances that are subject to a restriction in food:	E171 (Titanium dioxide), Aluminium oxide
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According to the supplier, the colourants comply with the European Resolution AP(89)1.