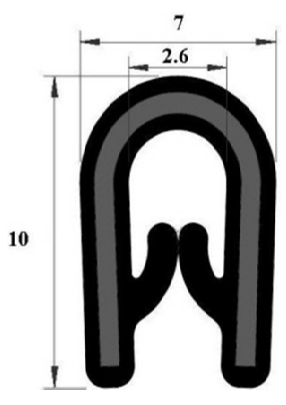
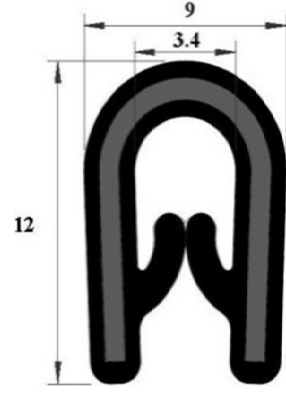


MicraSil® Anti-bacterial Edge Protection Profiles

Specifically dedicated to food and pharmaceutical applications and made from FDA Compliant Thermoplastic Rubber and Stainless Steel Clamps. This material has good resistance to atmospheric agents; U.V.; ageing and many chemicals.

M01.046	STOCK ITEMS	M01.040
	<p align="center">Specification</p> <p>Hardness: 70° Shore 'A'</p> <p>Weight: 112 gr/m</p> <p>Temperature Range: -35°C to +90°C</p> <p>Bending Radii: 300mm radially 200mm vertically</p>	
<p>Clamping Range: 0.8mm to 2mm</p>	<p>Notes: Use grease remover before fitting to improve gripping attachment.</p>	<p>Clamping Range: 2mm to 4mm</p>

PHYSICAL PROPERTIES: MicraSil® P.843AB

Property	Test Value	Norm
Hardness 5 Sec	70 Sh 'A'	ISO 868
Density	1.09	ISO 2781
Tensile Strength at Break	7.0 Mpa	ISO 37
Elongation at Break	340%	ISO 37
Colour	White	

MicraSil® P843AB is a thermoplastic elastomer rubber (S.E.B.S. type) dedicated to FOOD and ANTIBACTERIAL CONTACTS according ISO22196/2011 standard. This quality offers a good resistance to atmospheric agents, to ageing, to U.V. and to usual chemical products. MicraSil® P843AB is 100% recyclable.

ANTIBACTERIAL PROPERTIES

A survey was realised in order to evaluate the antimicrobial impact of MicraSil® P843AB (TPE: Thermo-Plastic Elastomer) that has been treated with an antibacterial agent compared to a material which received no treatment (LDPE: low density polythene). This study was realised according ISO 22196: 2011 Standard on the following strains:

Escherichia coli ATCC 8739
Staphylococcus aureus ATCC 6538
Kiebsiella pneumonia ATCC 700603
Staphylococcus aureus ATCC 33592

Test results available upon request

Check out the download area of our website
www.j-flex.co.uk for other product information



J-FLEX RUBBER PRODUCTS

Engineering Rubber Components & Specialised Sheeting Products

Unit 1, London Road Business Park, Retford,
 Nottinghamshire, England DN22 6HG

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www.j-flex.co.uk



MicraSil[®] Anti-Bacterial TPE

Data Sheet

BASE MATERIAL

We confirm that the ingredients which make up the composition of this Thermoplastic Elastomeric Compound conform to the requirements as defined in:-

(USA); Code of Federal Regulations, Food & Drug Administration—(FDA-21) : 177-1810\178-2010, 177-1520\178-2010—178-2010, 177-1640\178-2010, 177-1520, 176-170 Table II B-H\175-105, 178-3860, 177-1390\178-3620, 172.878

:- which relates to their permissive maximum concentration levels and ultimate use in manufactured articles for contact with Food-stuffs. Typical applications would be food packaging.

We stress that the Thermoplastic Elastomeric Compound has not been directly evaluated and subsequently approved with use in articles or components of articles in contact with foodstuffs.

This certificate does not cover:

- any subsequent modifications to the composition of the compound by the addition of any substances.
- Any inappropriate usage or application of the material which may lead to alterations in the composition of the compound.
- Any testing of the mutual compatibility between the cited compound and the contacting food substances.

We confirm that the above mentioned products are manufactured using good manufacturing practices recommended by Regulation EC 2023/2006 and that our quality management system insure the traceability required by the frame regulation EC 1935/2004.

To the best of our knowledge the raw materials used in production for this product comply by composition with the union list of authorised substances EC 10/2011 Annex I.

It is the supplier of the finished article who is obliged to insure that their product complies with the overall and specific migration limits.

The following restrictions for end product are relevant:

- a. Overall migration; Recommended food simulants are A,B,C and D1. The material will not pass migration tests with simulant D2. It is not suitable for fatty food.
- a. Specific migration: additives and monomers present with SML limits mentioned in the directive: Ref. 13630, CAS 106-99-0 the polymer used for production complies with the limit value of 1 mg/kg of final polymer.
Ref nr. 60800, CAS 65447-77-0, SML: 30 mg/kg food
Ref nr. 60400, CAS 3896-11-5 SML (T): 30 mg/kg food
Ref nr. 95883, Annex I, White mineral oil generic SML 60 mg/kg food (Article 11 § 2).
- c. Dual use additives: the material contains talc, amorphous silica and calcium stearate.

ANTIBACTERIAL ADDITIVE

The European Union's Commission Regulation 2011/10/EU of 14 January 2011 establishes specific rules for plastic materials and articles to be applied for their safe use and repeals Commission Directive 2002/72/EU of 6 August 2002 on plastic materials and articles intended to come into contact with foodstuffs.

Annex I of Regulation 2011/10/EU lists the substances that may be intentionally used in the manufacture of plastic materials and articles for contact with foodstuffs, subject to the restrictions set for the in Annex I.

This is to confirm that all constituents of the polymer additive are included in Annex I of Regulation 2011/10/EU with no restrictions.

Additionally, this letter confirms that all constituents of the polymer additive are classified by the US Food and Drug Administration which is GRAS (Generally Recognised As Safe) for use in food contact applications.

COMPLIANCE WITH RULES

Regulation CE No. 1907/2006 REACH.

Directive 2002/95/EC (RoHS): We are not aware of any lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenylethers (PBDE) being present in our compounds beyond permissible levels.

Directive 2002/96/EC (WEEE): We are not aware of any polychlorinated biphenyls (PCB), polychlorinated terphenyls (PCB/PCT), mercury, brominated flame-retardants, asbestos, chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HFC), ceramic fibres or radioactive substances being present in our compounds beyond permissible levels.

WARRANTY - this information written in this document is the closest picture of our actual knowledge. It is given as an indication. Regarding out of our control use conditions, this information cannot involve our warranty. Each user must check the compliance of this material to his own application (including tests on finished products in the dedicated environment). Our company cannot be responsible for any problem occurring in an incorrect or inappropriate use of these materials.