



Food industry

Rubber sheeting in food industry
Gaskets, sleeves and linings
www.trelleborg.com/fluidhandling

Food grade sheeting



Trelleborg offers a wide range of rubber sheeting suitable for use in most areas of the food and drinks industry. Main applications are sealing (gaskets) and protection (machine and process). The quality of our food grade sheeting ensures our position as first-choice partner.

In a constantly evolving market we have listened to our customers to enable us to offer new solutions to meet their needs. Our policy of always striving for continuous developments with innovative ideas alongside our finishing and production methods, has allowed us to design breakthrough products that we are excited to incorporate into our offer.

Silicone			Color	Density (g/cm ³)	Hardness (Shore A)	Tensile strength (MPa)	Elongation at break (%)	Working temperature (°C)	Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons
Red food quality	CORALSIL	SR	●	1.20	60	10	500	- 60 + 230	●	●	●	●
Transparent food quality	DIAMONDSIL	ST	○	1.20	60	10	500	- 60 + 230	●	●	●	●
Blue food quality	SAPPHIRESIL	SB	●	1.20	60	10	500	- 60 + 230	●	●	●	●
Metal Detectable quality	MAGNETSIL	SMD	●	1.30	60	8	300	- 60 + 230	●	●	●	●

● Very good
● Good
● Medium
● Non suitable

Silicone

Cleanliness

Time and money saving

A significant innovation is prominent in Trelleborg silicone sheeting: the absence of talcum on the surface. Being talcum-free, cleaning before use is not necessary.

Excellent mechanical properties.

DIAMONDSIL (ST)

Silicone with high level of transparency, free of dust.

Tested and qualified by BNIC (Cognac Inter-professional Organization), for short term contact with eau-de-vie (spirit). Qualification guarantees the absence of organoleptic modification risk.

MAGNETSIL (SMD)

Food grade silicone containing a ferromagnetic additive detectable by metal detector and x-ray equipment.

Fragments or particles of MAGNETSIL are easily and accurately detected in foodstuffs at any stage of production. Detection improves productivity and food safety, reduces waste and downtime.



		Color	Density (g/cm ³)	Hardness (Shore A)	Tensile strength (MPa)	Elongation at break (%)	Working temperature (°C)	Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons
NBR											
White food quality	B571	○	1.44	65	10	500	- 35 + 110	●	●	●	●
Blue food quality	B572	●	1.44	65	10	500	- 35 + 110	●	●	●	●
NR											
White food quality natural rubber	R642	○	1.40	65	10	600	- 45 + 80	●	●	●	●
Fine gran size material	Whitefine	○	0.95	40	20	600	- 40 + 80	●	●	●	●
EPDM											
White food quality	E569	○	1.27	60	8	350	- 40 + 115	●	●	●	●
Viton™ (FKM)											
Green food quality	V735	●	1.83	78	10	200	- 20 + 250	●	●	●	●

● Very good
● Good
● Medium
● Non suitable



NBR

NBR sheeting is recommended for contact with fatty foods and oils.

Blue NBR is the usual choice for dairy applications.

Application: gaskets, sleeves and protective components in food production and process.

EPDM

EPDM offers a good resistance to acids, bases and steam.

Due to its excellent ageing properties (heat, ozone, weathering), it is recommended for heated lines and fruit processing.

NR

NR is recommended when mechanical and/or dynamic properties are needed. R642 is an efficient selection.

Whitefine (R320) is a lining solution for handling abrasive food products in dry or wet conditions.

Viton™ (FKM)

Highly resistant to chemical and high temperature process.

Tested and qualified by BNIC (Cognac interprofessional organization). Qualification guarantees the absence of organoleptic modification as color, taste and chemical impact on spirit during production process.

Green color for easy identification. Application: gaskets.

Viton™ is a trademark of The Chemours Company FC, LLC.

Food grade certifications

All raw materials used in our food grade sheeting are selected to comply with the most restrictive norms related to foodstuff contact and controlled process to avoid cross contamination.

(EC) n° 1935/2004 regulation

Focused on food security, it establishes the need of limit on the migration of constituents into or onto food.

All our rubber sheeting qualities for foodstuff contact pass strict migration tests.

(EC) n° 2023/2006 regulation

This Regulation lays down the rules on good manufacturing practice for the materials and articles intended to come into contact with food.



The materials are in compliance with:

NR, EPDM, NBR and Viton; Decree dated on 5th of Aug. 2020 – France

For Silicone food grade qualities; Decree dated on 25th Nov. 1992 – France

NR, EPDM, NBR, Silicone; FDA 21 CFR Part. 177. Indirect Food Additives: Polymers. Sec177.2600 (USA), positive list and migration test.

Viton; FDA 21 CFR Part. 177. Indirect Food Additives: Polymers. Sec177.2600 (USA), positive list.

REACH

No substances on the current SVHC candidate list are in our food grade compounds.

PROP 65

Our food grade quality do not contain chemical included in the Proposition 65 list.

+

ADI free.

Phthalates and Bisphenol A free.

Traceability guaranteed throughout our process.

To support our customers in an increasingly demanding market, we are certified in the main management system international standards:

ISO 9001:2015 Quality Management Systems

ISO 14001:2015 Environment Management System

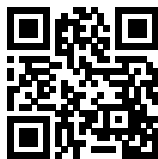
ISO 45001:2018 Health and Safety Management System



Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative solutions accelerate performance for customers in a sustainable way.

WWW.TRELLEBORG.COM

Scan here to view more product information



Trelleborg Fluid Handling Solutions, Trelleborg Izarra S.A.U.
Tel +34 945 437 000 - izarra@trelleborg.com,
www.trelleborg.com/fluidhandling