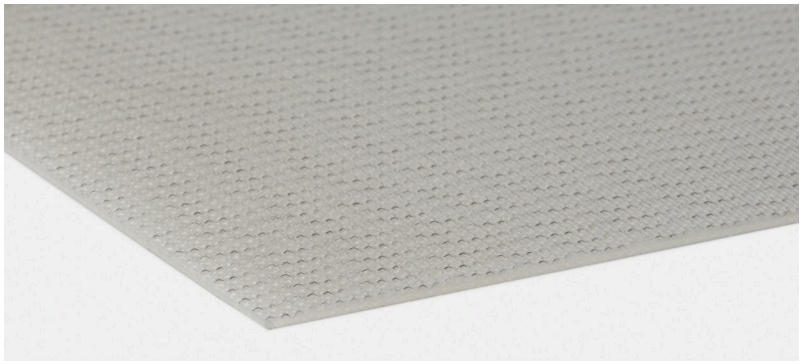
DATA SHEET

siegling transilon
conveyor and processing belts

Sustainable Solutions

Product Data Sheet

RE 4/2 U0/U0 transparent FDA



Art. No.: 901023 M 1:2

Applications

Bakery industry	Baked products conveying at large production widths; Dough conveying
Food industry	Accumulation belt / Discharge belt; Packaging machines for unpacked food
Tire/Rubber	Calendering; Rubber extrusion & cooling; Tyre building; Tyre cord cutting

Order information

Article number	901023
Suitable for corrugated side walls	No
Standard delivery width	4700 mm / 185.04 in
Maximal delivery width (without longitudinal seam) on request	4750 mm / 187.01 in
Longitudinal seam possible	No

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Construction

Top face material	Polyurethane impregnation
Surface pattern	Fabric
Color	Transparent
Driving face material	Polyurethane impregnation
Surface pattern	Fabric
Color	Transparent
Tension member material	Laterally stiff fabric of recycled polyester warp and weft
Number of fabric plies	2
Driving face weave	Plain weave

Sustainability

Fabric made of recycled products	Resource-friendly raw materials; Regenerative waste utilization; Positive contribution to life cycle/carbon emissions; Supports your sustainability concept
Savings CO_2 [kg/m²]	On request

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Technical data

Total thickness	1.15 mm ± 0.1 0.045 in ± 0.004
Weight	1.1 kg/m² ± 0.1 0.225 lbs/ft² ± 0.02
k1% value relaxed (effective pull at 1% elongation), established in line with ISO 21181:2005	3.75 N/mm / 21.41 lbf/in
Recommended Elongation at fitting min.	0.3 %
Recommended Elongation at fitting max.	1 %
Friction coefficient of driving face against steel panel according ISO 21182	0.15
Friction coefficient of top face against steel panel according ISO 21182	0.15
Permissible operating temperature	-30/100 °C, for a short time 120 °C -22/212 °F, for a short time 248 °F
Heat transfer coefficient	100 W/(K*m²)

Properties

Lateral stiffness	Laterally stiff
Troughable	No
Suitable for accumulation	Yes
Inclined conveying	No
Suitable for knife edges	Yes
Suitable for curves	No
Flame-retardant	No
Noise development	Normal
Belt support	Slider bed (support rollers possible)

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Food properties

(EU) 10/2011 and (EC) 1935/2004	Suitable for the transport of unpacked Food in compliance with food safety regulation (EU) 10/2011 and regulation (EC) 1935/2004
FDA 21CFR	Suitable for the transport of unpacked Food in compliance with FDA regulation 21CFR
MHLW 370	Compliant to the regulation MHLW 370 (Ministry of Health and Welfare Notification No. 370) for the transport of unpackaged foodstuffs.
Halal	Certificated Halal product. Meets trade description order 2011 and CODEX Alimentarius 1997 guidelines under supervision of Islamic Food Research Centre Hong Kong & Asia Region

Electrostatic properties

Antistatic	Belt material with an electrically conductive antistatic agent. Volume resistance (RDi) in longitudinal direction parallel to plane of belt < 3 x 10^8 Ω. Measurement according DIN EN ISO 21178.

Fabrication

Belt edge sealing	Smartseal
Suitable for corrugated side walls	No
Profiles on top face	Yes
Profiles on underside	Yes
Mechanical fasteners	KS; CS-05; HS-27

Minimum drum diameter

Z- splice - 70 x 11,5 mm, counter-bending	24 mm / 0.9 in
no translation	24 mm / 0.9 in
Stepped Z-splice - 35 x 11,5 mm, bending	24 mm / 0.9 in
Z- splice - 70 x 11,5 mm, bending	14 mm / 0.6 in
Z-splice, minimum radius fixed knife edge	3 mm / 0.1 in

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Remarks

Chemical resistance	U0

The physical data in this data sheet is approximate, can alter depending on production environments and was established at standard ambient conditions (23°C/73°F, 50% relative humidity) in accordance with DIN 50014/ISO 554. Fluctuations in climate can cause variations. See our brochure “Technical Information 1” no. 317 which shows the types of belts that can be supplied and the manufacturing tolerances. Customised types require written confirmation.

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