

# Ropanyl ESM 4/1 F1+02 light blue M1 AS FG AM NF

Article code: SBRP0434U1

## General information

|                             |                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------|
| <b>Product group</b>        | Synthetic Belts                                                                    |
| <b>Industry segment</b>     | Food: Meat & poultry, Confectionary & candy, Container & packaging; Fish & seafood |
| <b>Main product feature</b> | Anti-microbial, Non-fraying                                                        |
| <b>Indication of use</b>    | Slider bed, Rollers, Flat                                                          |

## Belt construction

|                        |                 |                                 |
|------------------------|-----------------|---------------------------------|
| <b>Tension layer</b>   |                 | polyester spun, stable          |
| <b>Number of plies</b> |                 | 1                               |
| <b>Top side</b>        | <b>material</b> | Ropanyl, TPU                    |
|                        | <b>finish</b>   | smooth, M1 Fine matt finish     |
|                        | <b>color</b>    | Light blue                      |
| <b>Bottom side</b>     | <b>material</b> | Ropanyl, TPU                    |
|                        | <b>finish</b>   | profile, F1 Light fabric emboss |
|                        | <b>color</b>    | Light blue                      |

## Characteristics

|                             |     |                               |
|-----------------------------|-----|-------------------------------|
| <b>Food Grade (FG)</b>      | yes | EC 1935/2004, EU 10/2011; FDA |
| <b>Antistatic (AS)</b>      | yes | ISO 21178                     |
| <b>High conductive (HC)</b> | no  |                               |
| <b>ATEX approval</b>        | no  |                               |

## Technical data

|                                        |                  |           |                       |                          |
|----------------------------------------|------------------|-----------|-----------------------|--------------------------|
| <b>Hardness</b>                        | ISO 868          | top side  | 85A Shore             |                          |
| <b>Force at 1% elongation (static)</b> | ISO 21181        |           | 4 N/mm                | 22.84 lbs/in.            |
| <b>Thickness</b>                       | AB method KV.002 | total     | 1.20 mm               | 0.05 in.                 |
|                                        |                  | top cover | 0.20 mm               | 0.01 in.                 |
| <b>Weight</b>                          | AB method KV.004 |           | 1.7 kg/m <sup>2</sup> | 0.35 lbs/ft <sup>2</sup> |
| <b>Operating temperature</b>           | continuous       | from / to | -20 / 90 °C           | -4 / 194 °F              |
|                                        | short            | from / to | -30 / 110 °C          | -22 / 230 °F             |
| <b>Minimum pulley diameter</b>         | flexing          |           | 6 mm                  | 0.24 in.                 |
|                                        | backflexing      |           | 10 mm                 | 0.39 in.                 |
| <b>Manufacturing width</b>             | standard         |           | 2000 mm               | 78.74 in.                |

## Fabrication

Hot splicing is always preferable. Glueing can only be done when the belt is exposed to normal temperature and the humidity is not excessive.

For the working method, consult the splice information and the equipment literature. Apply the recommended splice as indicated in the separate information.

## Additional information

This sheet contains typical values, which apply to a temperature of approx. 20 °C (68 °F), unless otherwise stated, individual data may differ.

We recommend to keep the belt tension to a practical working minimum to maximize the service life of the belt and machine parts.

Always protect belts from sunlight/UV-radiation, avoid temperatures below 10°C and above 40°C, dust and dirt. Store belts in a cool and dry place and if possible in their original packaging.

For details consult 'Storage and handling instructions' or contact our specialist.