UV-C-Resistant TPU Food Belts

Habasit is setting new benchmarks by adding the feature of UV-C resistance to already well proven TPU food belts.

Belts with this new UV-C-resistant feature are particularly suitable for the use in the meat industry, especially in slicer, skinner and dicer lines.

**Five times longer belt life**
The new UV-C-resistant attribute counteracts the aging of the belt surfaces caused by disinfecting UV-C radiation. Extensive lab and field tests in a typical meat processing application have proven that Habasit TPU food belts with UV-C-resistant properties achieve an up to five times longer belt lifetime than untreated belts (results can vary by application conditions and UV-C system used):

- Cost savings due to longer belt service life and fewer belt replacements with UV-C disinfection device
- Hydrolysis-resistant TPU assures long lifetime in humid environment
- EU and FDA conformable belts guarantee full safety
Impact of UV-C disinfection on belt surface

Belt surface before exposure to UV-C radiation

Belt surface after exposure to UV-C radiation

Test results of color change (visual impact measured)

- UV-C protection allows exposure time by a factor of 5 compared to unprotected belts.

Color change impact of UV-C radiation

Surface degradation (material integrity)

- No impact on protected belt surface after 24 h permanent radiation
- This represents e.g. for a short belt of 2 m length: 140 working days use possible

Test conditions used represent application

- Two shift operation 16 hours/day and 5 days/week
- Length of the belt L = 2,000 mm
- Exposure intensity E = 10 mW/cm²
- Temperature t < 25 °C

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