

Application Overview

For **Haptex**® PU solutions and **Elastollan**® TPU



Furniture

- Low VOC
- Good stitching
- High peel strength
- Flame retardant



Garment & Accessories

- Low VOC
- Softness
- High peel strength



Automotive

- Low VOC
- Good UV resistance
- High peel strength
- Low abrasion
- Heat and curve resistance



Footwear

- Low VOC
- Low abrasion
- Good flexing
- High peel strength

Meet stringent VOC requirements with environmentally friendly synthetic leather solutions from BASF

Breathe New Life into Synthetic Leather

with Haptex® and Elastollan®

Your environmentally friendly synthetic leather solutions

Note: The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, the data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the products to ensure that any proprietary rights and existing laws and legislation are observed. (August 2015)

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 **BASF**
We create chemistry

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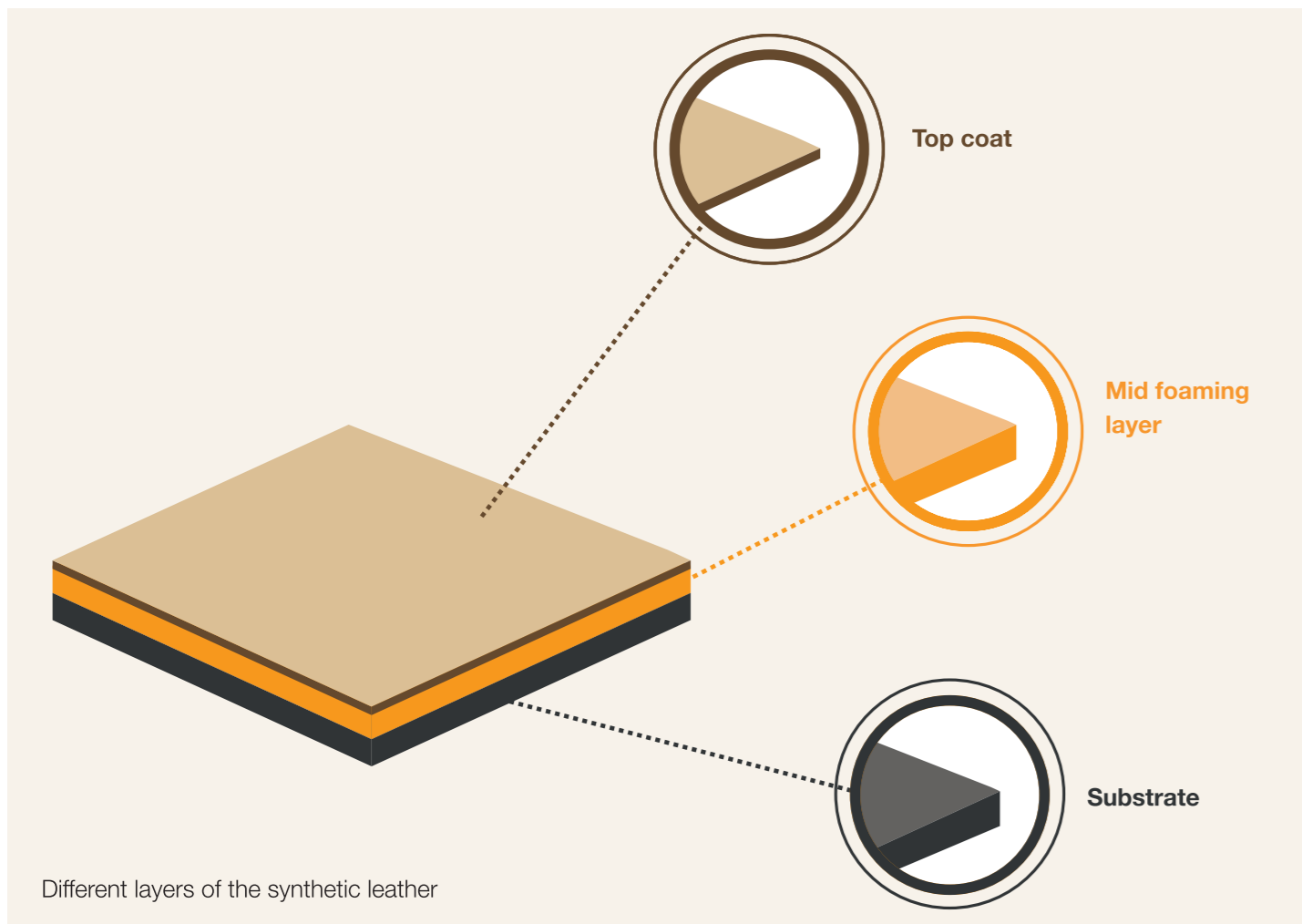
The next generation of synthetic leather

Synthetic leather made of polyurethane is used in the furniture and automotive industry, as well as for footwear, accessories and apparel. It is known for its softness, durability, lightweight and easy maintenance.

The physical properties of the end product are determined by the different layers of the synthetic leather, with the mid foaming layer having strong influence on the comfort and tactility. Therefore, it is crucial to meet specifications like tear resistance, tear propagation strength, abrasion, scratch resistance, and good hand-feel.

At the same time, it is becoming more and more important to offer environmentally friendly products to comply with volatile organic compound (VOC) requirements.

BASF is committed to continuously improve processes and products to provide solutions that help meet current and future market and product requirements. This is why we have come up with two solutions for synthetic leather, one based on **thermoplastic polyurethane (TPU)** and one on **polyurethane (PU)** to cover a broad range of applications:

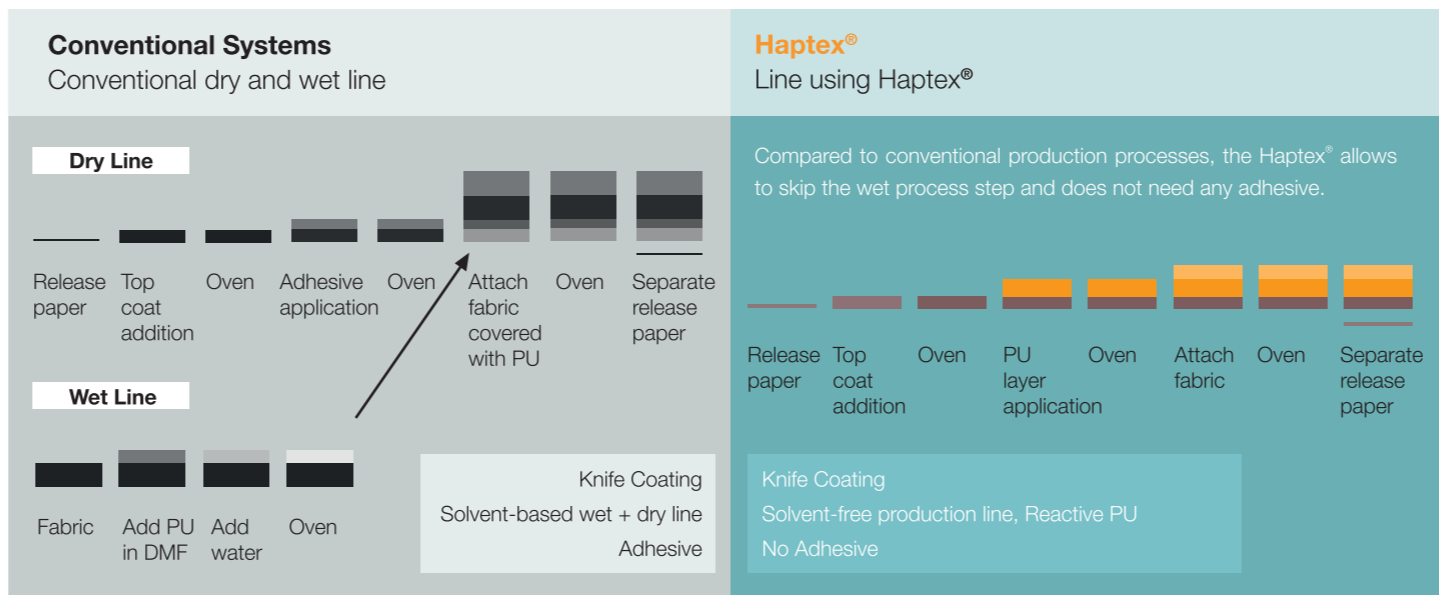


Haptex®

The first PU solution for synthetic leather with zero organic solvent

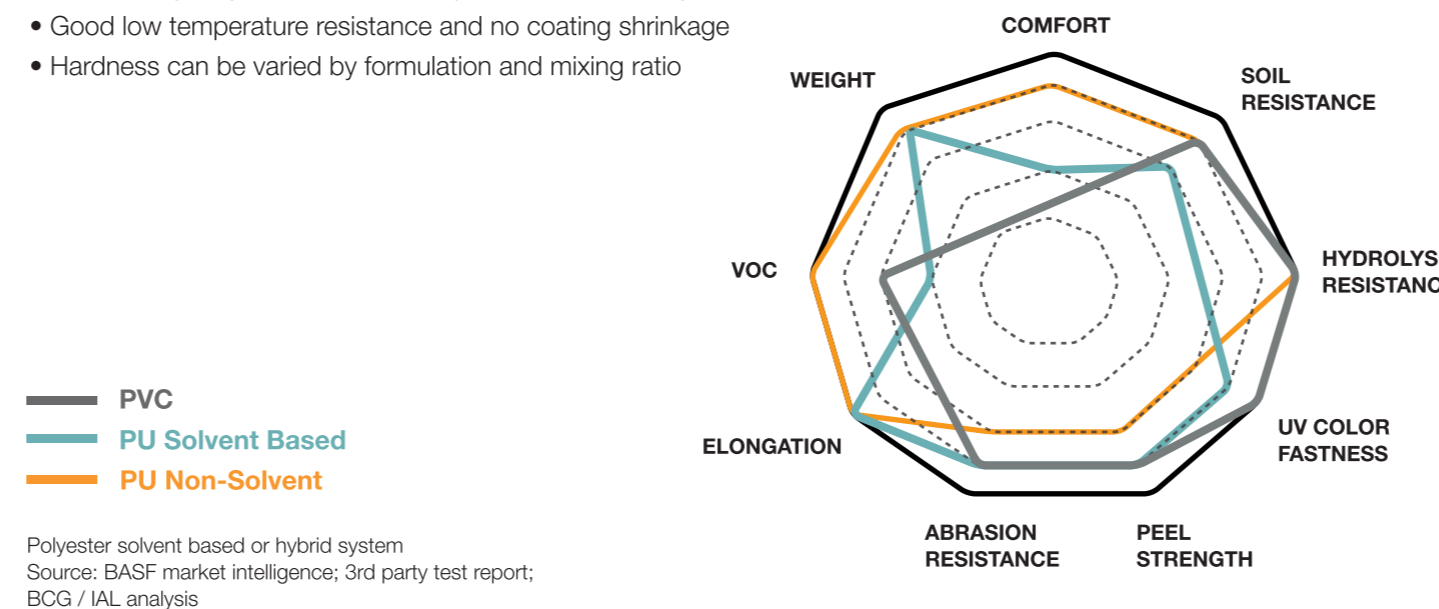
Haptex® is a polyurethane system for synthetic leather which does not use any organic solvent and therefore shows a unique combination of performances.

- 1 Environmentally friendly**
Meets stringent VOC norms
- 2 Simplified processes**
Simplifies the production process by saving one production step and avoiding the use of solvents
- 3 Superior properties**
Creates products that have superior physical properties and hand feel



Haptex® differs from conventional systems by showing:

- Excellent hydrolysis resistance compared to other PU systems
- Good low temperature resistance and no coating shrinkage
- Hardness can be varied by formulation and mixing ratio



Elastollan®

TPU solutions for top coat and mid foaming layer

Elastollan® TPU can be used for both the top coat and the mid foaming layer of synthetic leather.

