



# **HUNTSMAN**

# Enriching lives through innovation

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#### About Huntsman:

Huntsman Corporation is a publicly traded global manufacturer and marketer of differentiated and specialty chemicals with 2018 revenues more than \$9 billion. Our chemical products number in the thousands and are sold worldwide to manufacturers serving a broad and diverse range of consumer and industrial end markets. We operate more than 75 manufacturing, R&D and operations facilities in approximately 30 countries and employ approximately 10,000 associates within our four distinct business divisions. For more information about Huntsman, please visit the company's website at www.huntsman.com.

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# Innovative soling solutions



Enriching lives through innovation



# DALTOPED® X-LITE For lightweight, dynamic comfort shoes

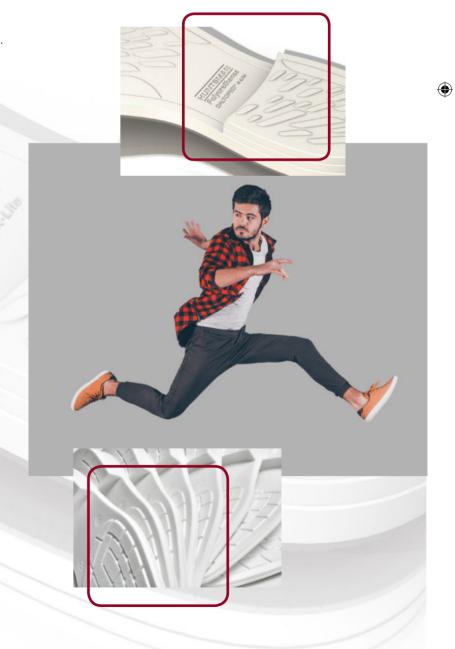
The DALTOPED® X-LITE polyether soling solution is an innovative material for the casual, sports and athleisure market.

A water-blown based solution, DALTOPED® X-LITE polyether soling solution is suitable for the casting and direct-on processing of unit soles and midsoles.

DALTOPED® X-LITE polyether soling solution can be used on existing polyurethane processing equipment, meaning no additional machinery investment is required. This makes DALTOPED® X-LITE polyether soling solution technology an excellent alternative to ethyl vinyl acetate (EVA).

# **Key features**

- Lightweight
- Hydrolysis resistant
- Flex performance
- Abrasion resistantProcessing at low densities



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#### **Benefits**

#### **Performance benefits:**

#### Comfort

• Lightweight (comparable to EVA)

#### **Durability**

- Hydrolysis resistant
- Flex performance\*
- Abrasion resistant\*

\* Certification of independent testing available on request

#### Design

- Multiple color possibilities
- Suitable for PU/PU, PU/TPU, PU/VR combinations
- Design flexibility

#### **Processing benefits**

- Room temperature processing
- Excellent flow
- Wide processing latitude
- Compatible with all existing and new shoe manufacturing techniques such as automation, speed, spraying, casting,

#### **Cost benefits**

- Suitable for processing on conventional polyurethane machinery
- No additional investment required
- Production efficiency due to raw material consistency
- Lower density and low reject rates
- Avoids time and material losses as the same system, on the same machine, can be used for both single density and dual

#### **Striving for sustainability**

We are dedicated to the development of sustainable soling solutions that can support the footwear industry's environmental ambitions. A signatory to the United Nations Global Compact (UNGC) - the world's largest voluntary corporate citizenship initiative - our work is guided by the UN's 17 Sustainable Development Goals. All 17 UN Sustainable Development Goals are important to our business - with three of particular relevance to our work in the global footwear sector.



- Lightweight materials for comfort
- Phthalate- and tin-free



- Water-blown technology Design flexibility





- Low density
  - Long lasting products
- Energy efficient process
  - Low reject rate

### **Committed to our customers**

We are committed to providing our customers with outstanding levels of support. We achieve this by:

- Employing experienced technical service people
- Providing trouble shooting advice
- Performing regular quality checks
- Offering sampling and proto-typing services
- Developing tailor-made solutions
- Co-innovating for the future
- Supporting product compliance needs
- Delivering dedicated training including MDI safe handling

## **Typical properties**

	EVA	DALTOPED® X-LITE technology
Density (kg/m³)	300	350
Hardness (Shore A)	45	50 – 55
Split tear (N/mm)	2.8	2.9
Trouser tear (N/mm)	4.2	5.8
Tensile strength (MPa)	1.8	2.8
Elongation (%)	250	270
Bennewart Flex life (mm cut growth) After 30,000 cycles	0	0
Bennewart Flex life (mm cut growth) After 90,000 cycles	< 2	< 2
Resilience (pendulum / %)	30	30
Abrasion (mg loss)	250 – 300	35

