

INNOVATIVE SOLING SOLUTIONS

DALTOPED® *X-Lite* TECHNOLOGY

For durable, lightweight shoes

Our DALTOPED® *X-Lite* technology is an innovative polyether material for polyurethane soles that functions as an ultra-lightweight, cost effective and highly versatile alternative to ethyl vinyl acetate (EVA). Ideal for the production of soles for high quality casual and children's footwear, DALTOPED® *X-Lite* technology combines the low density needed to make shoes more comfortable with excellent mechanical properties and improved processing.

Successfully satisfying so many elements, DALTOPED® *X-Lite* technology is a popular choice for the production of unit soles, mid soles and slippers.

DALTOPED® *X-Lite* technology has been certified by independent testing institutes, which have thoroughly assessed its premium abrasion performance properties and its excellent flexural resistance.

Benefits

Excellent mechanical properties

- Lightweight (350 kg/m³)
- Potential alternative for EVA
- Good flexural strength and abrasion resistance.

Easy to process

- A highly robust material
- Easy to use on conventional machinery
- Compatible with injection molding and casting processes.

High productivity

- Can help reduce manufacturing costs
- Lower energy consumption
- Faster cycle times.



Typical technical properties

	Premium EVA	DALTOPED® <i>x-Lite</i>
Density / Density (kg/m ³) DIN ISO 1183-1	300	350
Hardness (Shore A) DIN ISO 7619-1	45	50 - 55
Split tear (N/mm) DIN ISO 34-1	2.8	2.9
Trouser tear (N/mm) DIN ISO 34-1	4.2	5.8
Tensile strength (MPa) DIN 53504	1.8	2.8
Elongation (%) DIN 53504	250	270
Bennewart Flex life (mm cut growth) DIN ISO 17707 After 30,000 cycles	0	0
Bennewart Flex life (mm cut growth) DIN ISO 17707 After 90,000 cycles	< 2	< 2
Resilience (pendulum / %) DIN 53512	30	30
Abrasion (mg loss) DIN ISO 4649	250 - 300	35

* DALTOPED® *x-Lite* technology used: SUPRASEC® 2444 / DALTOPED® *x-Lite* AF 36404

Committed to sustainable soling solutions

Adding DALTOPED® *x-Lite* technology to our existing footwear range demonstrates our dedication to creating sustainable innovations for the polyurethane soling materials market, and our ability to deliver solutions in step with industry trends

Committed to customers

Alongside an extensive range of polyurethane soling materials, our highly skilled, technical footwear team can help optimize customer production processes for success. At our technical development center – where we've installed the very latest injection molding and casting equipment – we can replicate the manufacturing set up of our customers. This investment in our research and development capabilities, means our footwear products are well suited to the needs of manufacturers and can be processed extremely efficiently. It also enables partnerships with footwear customers who have a specific brief or manufacturing challenge to overcome.

- Dedicated to sustainable innovation
- Supporting customers with tailor-made solutions
- Committed to long-term partnerships
- In-house customer prototyping available
- Specialist technical support on offer
- Helping footwear manufacturers stay one step ahead.

For more information

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HUNTSMAN

Enriching lives through innovation

About Huntsman

Huntsman Corporation is a publicly traded global manufacturer and marketer of differentiated chemicals with 2015 revenues of approximately \$10 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 100 manufacturing and R&D facilities in approximately 30 countries and employ approximately 15,000 associates within our 5 distinct business divisions. For more information about Huntsman, please visit the company's website at www.huntsman.com.

Disclaimer

Huntsman Polyurethanes warrants only that its products meet the specifications agreed with the buyer. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications.

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