HUNTSMAN

Enriching lives through innovation

Polyurethanes

RUBIFLEX® product line

Lightweight comfort with innovative chemistry

The comfort of driving

How can you provide the ultimate comfort experience for drivers and passengers? Our RUBIFLEX® MDI-based product line offers innovative automotive seating solutions, providing you distinct benefits in terms of processability and foam properties for a unique driving experience.

Why RUBIFLEX® product line?

Light
Create thin yet highly resilient seating solutions that provide more space with less weight.

Comfortable
Provide soft-feeling product surfaces, distinctive comfort and enhanced body support.

Circular and clean
Maintain technical performance while increasing bio-content and improve the user experience with low-emission MDI technology.

Versatile solutions for advanced seating

The RUBIFLEX® range includes fully formulated systems, polyurethane components and prepolymers to produce a wide range of seating applications. This versatility allows you to expand your production capabilities while reducing your inventory.

Enabling design freedom and cost-efficiency, the RUBIFLEX® MDI-based product line offers a robust processing window for manufacturing methods including cut-and-sew, foam-in-place and cold cure moulding. Globally available and compliant with the specifications of major OEMs, the RUBIFLEX® product line helps you assure supply chain security and reduce your risk of production downtime.

Targeted application areas:

- High resiliency, flexible foam seat cushions and seat backs
- Semi-flexible foam headrests
- Centre consoles
- Armrests

Introducing the next generation of the RUBIFLEX® product line

Building on our 40 years of experience providing solutions for automotive seating, we have added a new generation of comfort with three technologies: **RUBIFLEX® HR AC** system, **RUBIFLEX® HR GH** system and **RUBIFLEX® HR VP** pre-polymer.

NEW

1 RUBIFLEX® HR AC

polyurethane system commonly used for Advanced Comfort (AC) for thin seats

- High Resilience (HR) response
- Dynamic Advanced Comfort (AC)
- Standardised manufacturing processes
- Fully formulated system

NEW

2 RUBIFLEX® HR GH

polyurethane system commonly used for Gradient Hardness (GH) foam for simplified manufacturing

- High Resilience (HR) response
- Uniquely firm Gradient Hardness (GH)
- 1-piece-1-step manufacturing process
- Fully formulated system

NEW

3 RUBIFLEX® HR VP

polyurethane pre-polymer for self-formulators looking to improve comfort

- High Resilience (HR) response
- Exceptional Vibration Performance (VP)
- Enables thinner seat design possibilities
- Pre-polymer

4 RUBIFLEX® H +

polyurethane system with low emission, commonly used for flexible foam for moulded headrests and armrests

- Outstanding physical properties
- Low emissions
- Fast cycle time and robust processability

5 RUBIFLEX® HR +

polyurethane system with low emission, commonly used for flexible foam for seat cushions

- High Resilience (HR) response
- Low emissions and low odour
- Reliability enables less rejects and downtime

NEW

6 RUBIFLEX® H FD

polyurethane system with faster processability, commonly used for flexible foam for moulded headrests and armrests

- 20% faster demould time vs. conventional system
- Meet stringent physical properties requirements
- Low emission system

7 RUBIFLEX® HR BIO

polyurethane system with bio-content, commonly used for flexible foam for seat cushions and seat backs

- High quality foam made with bio-polyol
- Meets stringent emissions requirements
- No extra components required

8 RUBIFLEX® H BIO

polyurethane system with bio-content, commonly used for flexible foam for moulded headrests and armrests

- Robust foam made with bio-polyol
- Low odour performance
- Meets robust processing requirements

A light, comfortable and clean future

MDI-based foam solutions create the opportunity to improve operational efficiency, reduce environmental impact and create a clean, more durable end-product without sacrificing performance.

MDI-based foam systems contain approximately 10 times less VOC (Volatile Organic Compound) content than TDI-based foam systems. This allows you to reduce emissions and odour to improve your working environment and customer experience, and comply with stringent OEM requirements.

Why MDI?

- Reduce extraction costs
- Reduce final part emissions
- Reduce costs related to compliance with Environmental Health and Safety regulation

10x
less VOC content

Design success into your products

Huntsman Polyurethanes offers technical expertise and testing capabilities to support your product development. Our global Research and Technology (R&T) teams offer a personal approach to help you develop new solutions that meet your customers' needs and exceed drivers' and passengers' expectations for comfort in full compliance with Automotive ISO and Technical Standard.

How can we help?

- Increase environmental benefits
- Expand health and safety features
- Design and prototype light, comfortable and safe seats
- Speed up manufacturing start-up with the RUBIFLEX® product line
- Reduce Total Cost of Ownership

For more information: **www.huntsman.com/polyurethanes**
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Towards sustainability

As society moves towards a circular economy, industries are searching for alternative resources to fossil-based chemistry and are increasingly moving towards renewable bio-based technologies. At Huntsman, we are dedicated to the development of sustainable solutions that can support the automotive industry's environmental ambitions.

As 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 RUBIFLEX® product line.

3 GOOD HEALTH AND WELL-BEING

Increase safety and comfort

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

Optimal use of resources, improved productivity and lightweight design

13 CLIMATE ACTION

Reduce fuel consumption

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