# **Polyurethanes for Molded Rubber Crumb Applications**



### SUPRASEC® MDI

Giving Your Products the Edge

Huntsman offers an unsurpassed array of moisture-cure polyurethane prepolymers under the SUPRASEC® MDI brand allowing you to match the right material with the proper application, thus providing our customers with optimal benefits to suit the environment.

#### PRODUCT APPLICATIONS

Recycled crumb rubber is a reliable material for use in molded products due to its resilience and structural properties. Molded rubber crumb products include lawn and garden edging, parking stops and many other applications. The usage levels of rubber crumbs (often from recycled rubber tires) vary by application. Molded cylinder applications contain 5-6% by weight of SUPRASEC® MDI binder, while smaller molded products can range between 3-10% by weight binder.

### **OVERALL BENEFITS**



## Strength

Rubber crumb composites can be formulated to achieve select properties such as tensile strength, flexibility, tear strength and elongation, depending on final density, mesh sizing, and binder selection.





## Sustainable

Since 1990, 94% of the scrap tire stockpile has been recovered for new uses\*. Ground tire rubber is used in rubber modified asphalt, landscaping and playground mulch, athletic surfaces, molded and extruded products, automotive parts, and many other applications.



# **Cycle Time**

Production of parts in fewer steps is a key benefit to MDI-based molded rubber crumb. Faster cycle time for molded part manufacturers means less time and money spent on the assembly line.

### **TECHNICAL PROPERTIES**

AVAILABLE PRODUCTS				
Product Name	Viscosity (cPs @ 25°C)	Color	Cure Speed	Description
SUPRASEC® 4420	1100	Clear	Fast	General purpose binder
SUPRASEC® 4450	2300	Light Brown	Moderate	High tensile strength
SUPRASEC® 4480	2500	Clear	Moderate-slow	High elongation
SUPRASEC® 4499	1650	Light Brown	Slow	Longest working time Ideal for larger parts

### **SUSTAINABILITY GOALS**





At Huntsman, we value sustainable practices and exhibit them throughout the production of our polyurethane materials. In support of the United Nations Sustainable Development Goals, we showcase the goals that are positively influenced with these products.

For more information visit sdgs.un.org/goals.



#### **CONTACT US**



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For more information about polyurethanes in rubber crumb flooring or any other MDI-based solutions, please go to **Huntsman.com** and complete the Polyurethanes Contact Us form.

#### **ABOUT US**

Huntsman Polyurethanes is a global leader in MDI-based polyurethanes, serving over 3,000 customers in more than 90 countries. We have world-scale production facilities in the U.S., the Netherlands and China, and a global network of more than 30 downstream formulation facilities which are located close to our customers, providing highly differentiated, tailored solutions.

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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Products may be toxic and require special precautions in handling. The user should obtain Safety Data Sheets from Huntsman Polyurethanes containing detailed information on toxicity, together with proper shipping, handling and storage procedures, and should comply with all applicable safety and environmental standards.

Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent on the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

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