

AVALON[®] GECKO

Get the grip.



Huntsman Footwear Solutions

Diversified portfolio of TPUs and customized 2k systems

HUNTSMAN

Enriching lives through innovation

OUTSOLES

AVALON® GECKO

AVALON® SOFT

DALTOPED® GRIP

MIDSOLES

DALTOPED® LITE

DALTOPED® LITE
ENERGY

SMARTLITE® O

SMARTLITE® SCF

INSOLES

DALTOPED®
COMFORT

IROGRAN® TPU
(SCF)

UPPERS + COMPONENTS

AVALON® GECKO

AVALON® SOFT

DALTOPED® GRIP



HUNTSMAN

Enriching lives through innovation

High Grip
AVALON[®] GECKO TPU

High performing outsole material
enabling circularity

High Grip **AVALON® GECKO TPU**

High performing outsole material
enabling circularity



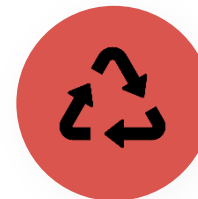
SAFE

Seeking the optimum balance between wet and dry grip providing comparable slip performance to rubber



DURABLE

Better (thermo-) abrasion resistance than rubber, allowing for very good durability during wear



CIRCULAR

Thermoplastic material enabling mechanical recycling when combined with SMARTLITE® O midsoles*

HIGHLY VERSATILE

thermoplastic portfolio





FOR **MANUFACTURERS**

- High productivity in injection molding (fast cycle)
- Processable via film extrusion allowing for vacuum forming outsoles and/or encapsulated film constructions
- Possibility for adhesive-free bonding to SMARTLITE® O midsole
- Reduced waste with PIR* being fully reused in the process

Typical properties can vary depending on local circumstances, production process and application. These properties are not part of the product specifications. See Disclaimer for further information.

*Post industrial recycled



FOR **DESIGNERS**

- Colorable with vivid colors
- Transparent version
- Comfortable at Shore 60A
- Capable of being molded, extruded and foamed (SCF)

AVALON® 6044 AG · AVALON® 6053 AG · AVALON® 6055 AG



Meet the AVALON® GECKO TPU portfolio

Three innovative grades tailored for different high-performance applications

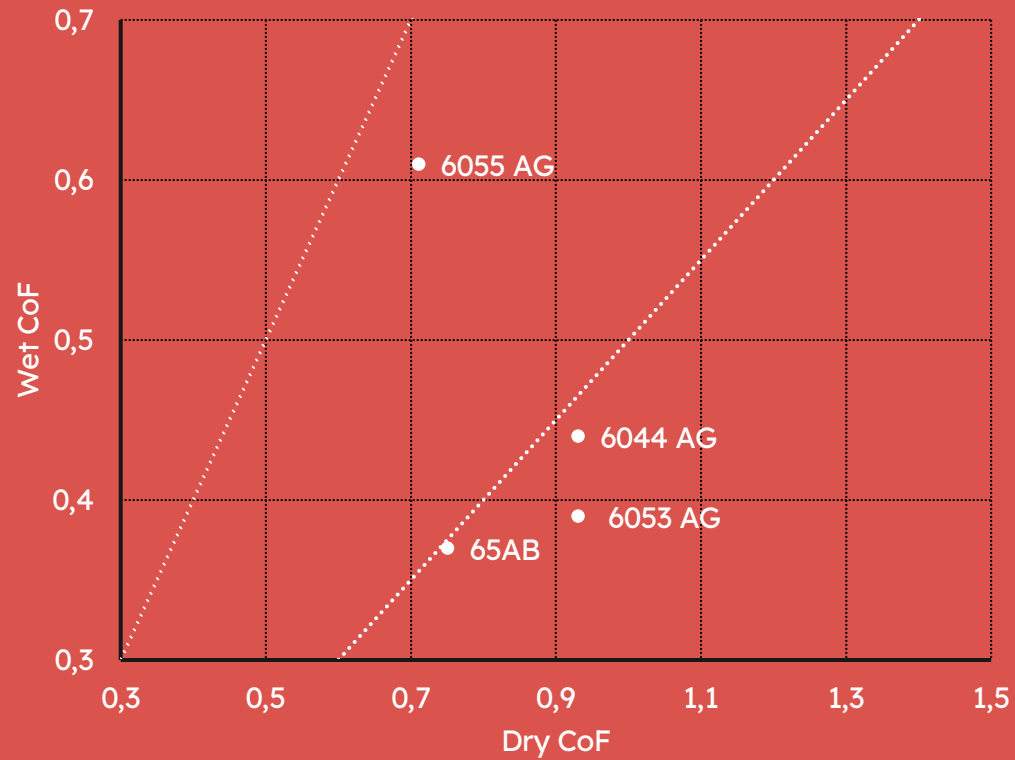
Meet the AVALON® GECKO TPU portfolio

Three innovative grades tailored for different high-performance applications

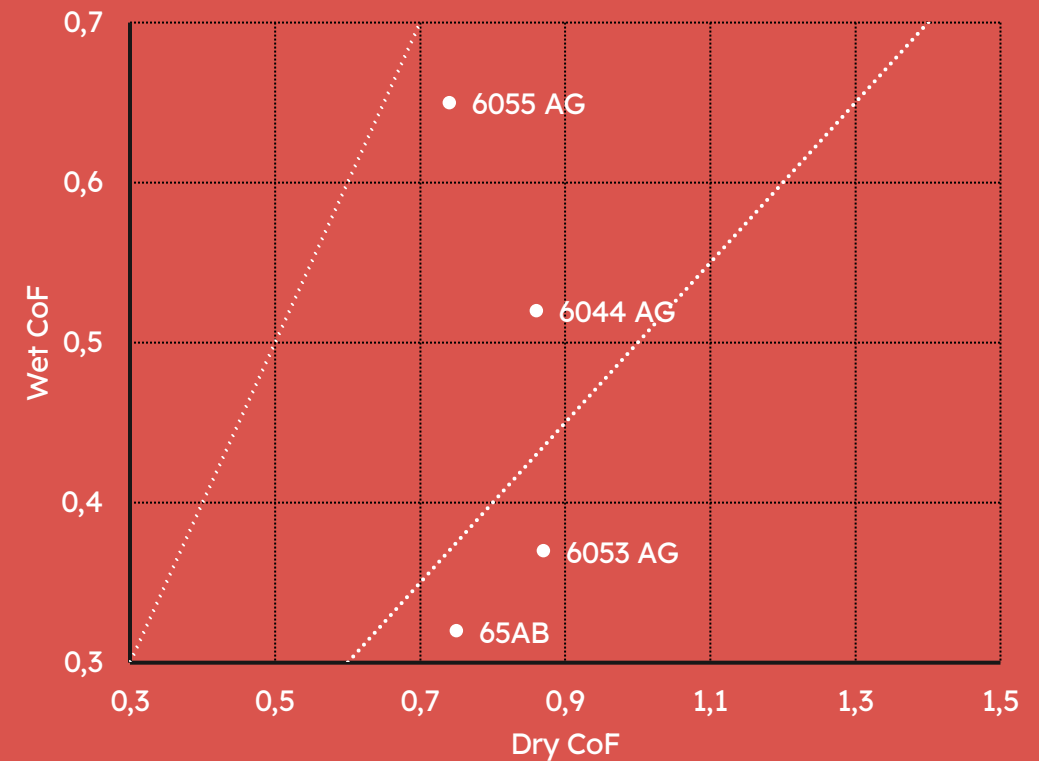
AVALON®GECKO portfolio	Color	Slip resistance*			Abrasion	Process IM	Price Indication
		Dry	Wet	Ratio			
AVALON® 6053 AG	Transparent	Excellent	OK	~2	Excellent	(Extrusion)	\$\$
AVALON® 6055 AG	Transparent	Very good	Very good	~1	Good	Good	\$\$\$
AVALON® 6044 AG	Opaque	Excellent	Good	~1.5	Very good	Excellent	\$
AVALON® 65 AB (baseline)	Transparent	Very good	Poor	~2	Very good	Very good	\$

*Results were generated in controlled lab conditions according to testing standard TM144:2011 & DIN ISO 4649-A.
Data variations due to varying processing or ambient conditions cannot be excluded. These properties are not part of the product specifications.

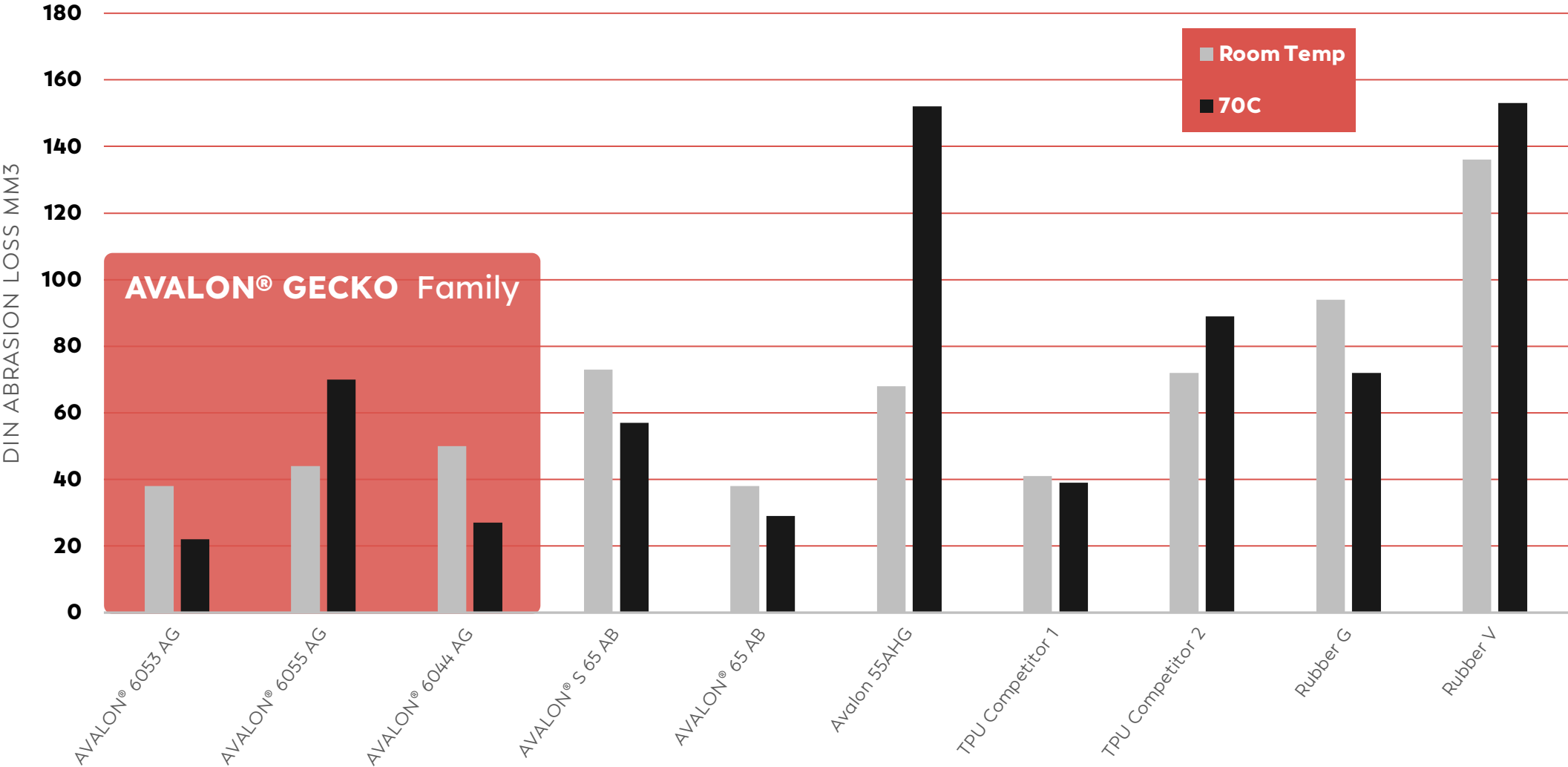
Slip resistance on a clay quarry tile, ASTM 2913
forepart, EVB mold with AA45320 midsole



Slip resistance on a clay quarry tile, ASTM 2913
heel, EVB mold with AA45320 midsole



AVALON® GECKO Abrasion Loss



*Results from third party testing at Satra using ASTM 2913, Huntsman mold.
*Results were generated in controlled lab conditions according to Internal DIN abrasion testing. Data variations due to varying processing or ambient conditions cannot be excluded. These properties are not part of the product specifications.



AVALON® GECKO
Get the grip.

HUNTSMAN
Enriching lives through innovation

AVALON® 6053 AG

- Best abrasion resistance, super thin outsoles possibility

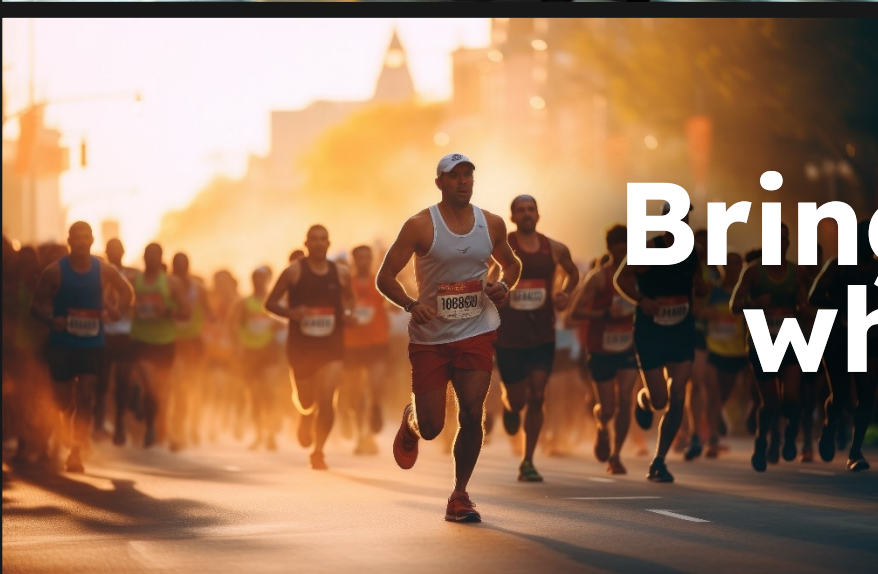
AVALON® 6055 AG

- Best slip resistance (ratio) in dry & wet surfaces

AVALON® 6044 AG

- Best processing, all-around performance & cost

**High grip and circular
alternative to rubber outsoles**



**Bringing performance
where it's needed.**



AVALON® GECKO



THANK YOU



Disclaimer

About Huntsman: Huntsman Corporation is a publicly traded corporation headquartered in The Woodlands, Texas, in the United States of America. Huntsman is a global downstream, differentiated, and specialty chemicals company. For more than 50 years, we have been using science and ingenuity to innovate and create products that enable more sustainable and comfortable lives for millions of people around the world. In 2023, Huntsman had more than 6,000 associates working in nearly 60 manufacturing, research and development (R&D), and operations facilities in 25 countries. Through our three divisions, we produce approximately 6,250 products to serve a broad and diverse range of consumer and industrial end markets including aerospace, transportation, building and construction, consumer goods, energy and fuels, and food preservation.

Disclaimer: Huntsman Polyurethanes is an international business unit of Huntsman International LLC. Huntsman Polyurethanes trades through Huntsman affiliated companies in different countries such as Huntsman International LLC in the USA and Huntsman Holland BV in Western Europe. Except where explicitly agreed otherwise, the sale of products referred to in this publication is subject to the general terms and conditions of sales of Huntsman International LLC or of its affiliated companies. Huntsman warrants only that its products meet the specifications agreed with the buyer in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NO GUARANTY, WARRANTY OR REPRESENTATION IS MADE, INTENDED OR IMPLIED AS TO THE CORRECTNESS OR SUFFICIENCY OF ANY INFORMATION OR RECOMMENDATION OR AS TO THE MERCHANTABILITY, SUITABILITY OR FITNESS OF ANY PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE. IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE. NOTHING IN THIS PUBLICATION IS TO BE CONSTRUED AS RECOMMENDING THE INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT AND NO LIABILITY ARISING FROM ANY SUCH INFRINGEMENT IS ASSUMED. NOTHING IN THIS PUBLICATION IS TO BE VIEWED AS A LICENCE UNDER ANY INTELLECTUAL PROPERTY RIGHT. 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.

AVALON®, SMARTLITE®, DALTOPED® and IROGRAN® are registered trademarks of Huntsman Corporation or an affiliate thereof in one or more, but not all, countries. © 2024 Huntsman Corporation or an affiliate thereof. All rights reserved.