



# Lipolan™

Synthomer's high solids styrene-butadiene rubber latices (HS-SBR) for superior latex foam manufacturing.

All Synthomer Lipolan™ F products deliver a perfect, fine open-cell foam structure, ensuring outstanding elasticity and breathability. Their mechanical stability and their high level of consistency ensure perfect runnability during the foam manufacturing process.



Lipolan™





# Product Information



## Lipolan™

High solids styrene-butadiene rubber (HS-SBR) latices for superior latex foam manufacturing.



Synthomer is the global market leader for HS-SBR latex used in latex foam manufacturing, with the broadest product portfolio that can cater our customer's needs worldwide. Synthomer produces a range of HS-SBR grades achieving the exact high point-elasticity and flexibility required for the desired durability and hardness, as well as low compression sets and sagging. Furthermore, all our latices are suitable for all major latex foam manufacturing processes, such as Dunlop, Talalay, Radio Frequency and non-gel-processes. From hard to soft and stiff to flexible, as well as our unique visco-elastic formulation, Synthomer has a product to meet your precise needs in a variety of applications.



**Bedding**



**Specialities**



**Footwear**



**Leading in Speciality  
Emulsion Polymers**



## Sustainability driven by Lipolan™ TERRA

Lipolan™ TERRA is Synthomer's promise towards sustainability, leading the transformation of the latex foam manufacturing industry by innovating on our HS-SBR products to reduce the overall environmental impact in the supply chain.

Synthomer's aim is to produce a more sustainable alternative of all current Lipolan™ F grades under the Lipolan™ TERRA brand.

Lipolan™ TERRA 2022F is the first grade of the new sustainability brand and it enables a more sustainable latex foam manufacturing by delivering on higher productivity, material efficiency and reduced carbon footprint. Lipolan™ TERRA 2022F is a very soft and resilient latex, specially designed for easy processing even under difficult working conditions. A few unique characteristics are:

- ✓ **Biocide free**
- ✓ **ca. 70% solids content**
- ✓ **Favourable total solids to viscosity ratio, which eases the foaming of your latex compound**
- ✓ **Extended open time in any gelation process**
- ✓ **Reduced shrinkage**
- ✓ **Prevents premature coagulation**
- ✓ **Reduced clogging of ducts, mixers and pumps.**



**Up to 60% Reduced Carbon Footprint**  
in RF Process

**Less Cleaning**  
Up to 90%  
Less Downtime

**Less Shrinkage**  
in Topper Process  
– Up to 10%

**Efficient to Transport**  
Reduced Carbon Footprint  
of Transport – Up to 5%

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**Bedding Foam**



**Footwear Foam**



**Lipolan™ TERRA**



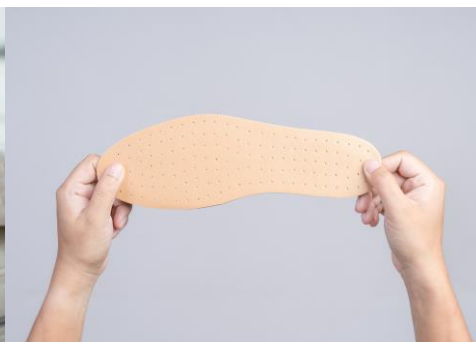


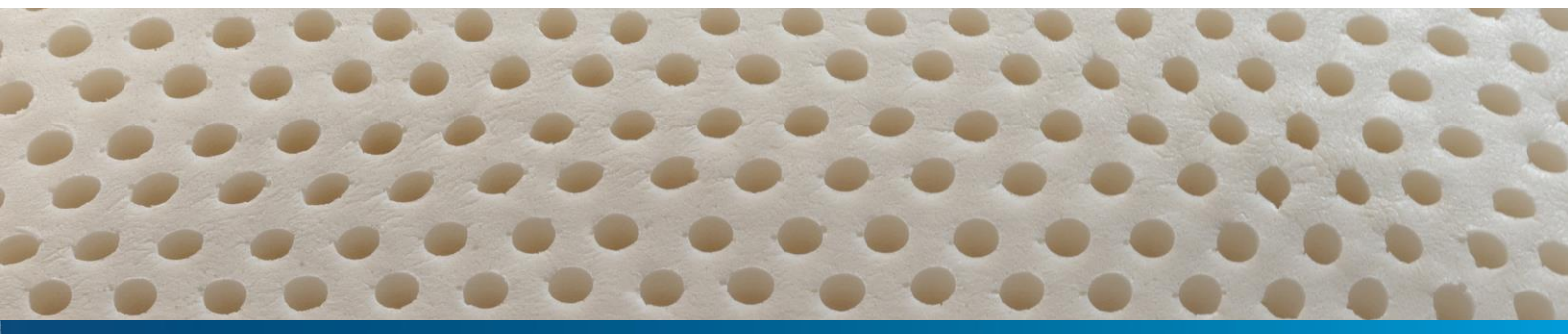


## Lipolan™ F Portfolio

	Moulded Mattress Blocks	Moulded Foam Pillows	Flat Foam Toppers	Flat Footwear Foam & Laminates	Moulded Footwear Foam (Cookies)	Sport Mats	Goalkeeper Gloves	Cosmetic Pads	
Product Name	Applications								Properties
High-solids Styrene Butadiene Copolymers									
Lipolan TERRA 2022F	●	●	●	○	○	○	○	●	Low shrinkage. High foam stability. Very soft indentation hardness.
Lipolan F 2040F	●	○	●	●	○	●	●		Very soft with high resilience.
Lipolan F 2420F	●	○	●	●	●	●	●		Very soft with high resilience.
Lipolan F 2820F	●		●	●		○	●		Medium high indentation hardness with good resilience and soft character.
Lipolan F 2610F	○		○	●	●	○	●		High indentation hardness. Can be used as harder mixing component together with softer Lipolan grades and/or natural rubber latex.
Lipolan F 2810F	○		○	●	○	○	●		High indentation hardness. Can be used as harder mixing component together with softer Lipolan grades and/or natural rubber latex.
High-solids Styrene Butadiene Copolymers (Visco-elastic)									
Lipolan F 2530F	○	○	●	●	●	○	○		Visco-elastic effect. Great flexibility of mould design.

- Bedding
- Main Applications
- Footwear
- Foam Specials
- Can be used in these applications





## Lipolan™ F Portfolio

					Solid Content* [%]	pH Value*	Surface Tension* [mN/m]	Viscosity* (Brookfield LV 3/30) [mPas]	Compatibility with Natural Latex Rubber
	Hardness	Polymer properties							
High-solids Styrene Butadiene Copolymers	Soft	Medium	Hard						
Lipolan TERRA 2022F	<div><div></div></div>				70	11.0	<35	<2200	yes
Lipolan F 2040F	<div><div></div></div>				67	11.0	37.0	<2200	yes
Lipolan F 2420F	<div><div></div></div>				67	11.0	37.0	<2200	yes
Lipolan F 2820F		<div><div></div></div>			67	10.6	39.0	<2200	yes
Lipolan F 2610F			<div><div></div></div>		66	10.4	39.5	<2200	yes
Lipolan F 2810F			<div><div></div></div>		66	10.4	39.0	<1700	yes
High-solids Styrene Butadiene Copolymers (Visco-elastic)									
Lipolan F 2530F	<div><div></div></div>				66	10.4	39.0	<2200	yes



- ✓ Long heritage & market-leading HS-SBR for foam manufacturing worldwide
- ✓ Broadest product portfolio
- ✓ Suitable for all major foam manufacturing processes

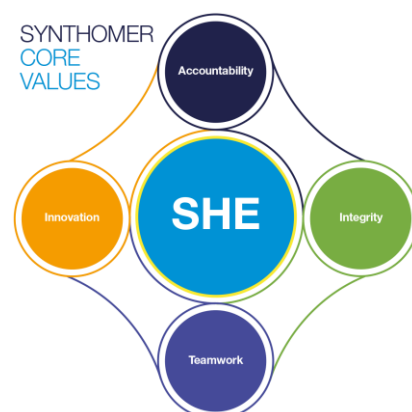
- ✓ Dedicated production plant for HS-SBR in Germany
- ✓ Dedicated technical service & laboratory team



## A Growing Supplier of Speciality Polymers

Synthomer is one of the world's foremost suppliers of aqueous polymers and has leadership positions in many markets. Our polymers help customers create new products and enhance the performance of existing products in key industries. Synthomer has a strong track record of organic growth, as well as merges and acquisitions. As a result, we have grown our global manufacturing network, expanded our product portfolio and boosted our geographical presence, allowing it to better serve new and existing customers around the world.

Synthomer has its operational headquarters in London, UK, and provides customer-focused services from regional centres in Harlow, UK; Marl, Germany; Kuala Lumpur, Malaysia and Atlanta, USA. It employs more than 4750 employees across more than 38 sites. With production sites local to our customers, we are better able to respond to their specific needs, reduce the cost of logistics and minimise our environmental impact.



Leading the  
**Synthomer**  
Way

## Sustainability driven by Lipolan™ TERRA



**Lipolan**<sup>TM</sup>  
**TERRA**



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