



## Technical Data Sheet

# Europrene® Lattice

SB LATEX

# 5577 BCA

Styrene – Butadiene Copolymer Bio-Circular Attributed



Europrene® Lattice 5577 BCA is an aqueous anionic dispersion of a styrene-butadiene copolymer with high solid content obtained by emulsion polymerization using fatty acid soap as emulsifier. It does not contain any antioxidant.

### Sustainability

Bio raw materials can be used in production processes together with traditional raw materials. In order to attribute sustainability characteristics to the final product, Versalis applies the **Mass Balance** approach, an acknowledged methodology that ensures that the sustainability characteristics of the alternative raw material, mixed with traditional naphtha, correspond to those of the final product. BCA products are provided with a **sustainability declaration** indicating the amount of Bio-Circular Attributed component. They guarantee identical performance, quality and properties, as they do not differ in chemical composition and physical-mechanical performance from standard products.

| Main Properties                   | Test Method | Unit  | Typical Value |
|-----------------------------------|-------------|-------|---------------|
| Total solid content               | ASTM D 1417 | % wt  | 66            |
| Brookfield Viscosity 20 rpm, 25°C | ASTM D 1417 | mPa.s | 800           |
| Bound Styrene                     | ASTM D 5775 | % wt  | 30            |
| pH                                | ASTM D 1417 |       | 10.5          |

### Key Features

Europrene® Lattice 5577 BCA, after vulcanization, shows good mechanical properties as high resilience, good tensile strength and elongation at break. It can be blended and vulcanized in a similar manner to natural rubber latex. Foam made of Europrene® Lattice 5577 BCA shows a medium indentation hardness and a good resilience.

### Main Applications

Europrene® Lattice 5577 BCA is used for medium stiffness moulded foams (pillows, mattresses, topper) related to Dunlop, Talalay, gel/no gel processes. It can be used in gel and no-gel carpet foams.

### Physical Form

At standard condition (T=25 °C P=1 bar) is liquid, color white or milky white.

### Packaging

Europrene® Lattice 5577 BCA is delivered in bulk using tank trucks, flexitank and IBC (1000 l.)

### Storage Conditions

Store in closed vented tanks or in a covered place in sealed packaging, away from sunlight and heat sources, at temperature between +5 and +40 °C. If pH drops below 10, it can be adjusted through the addition of KOH solution. The shelf life is 6 months from delivery date. Nevertheless, the dispersion contains particles with a density less than water and consequently may form a cream layer when it has been standing for a time. Creaming is a reversible process. Therefore, the dispersion should be stirred before use.

