

Solution Styrene Butadiene Rubber (S-SBR) Buna™ VSL, Buna™ SL



Solution SBRs are gradually replacing emulsion SBRs for summer and winter tire treads requiring low rolling resistance tires without compromising grip especially in the high performance sector. It is sometimes blended with NR and BR (Buna™ CB) to improve the balance of properties of the final product.

As a component in the polymer blend of car tire treads, grip and rolling resistance will be enhanced by controlling the glass transition temperature and shape of the tan delta curve.

The LANXESS Buna™ VSL portfolio offers solution styrene butadiene rubbers that have different styrene

and vinyl levels which allows the glass transition temperature of the tread compound to be adjusted in order to steer the end properties required by the application.

Additionally we offer a range of S-SBRs called Buna™ SL that have a similar glass transition temperature to that of natural rubber. This makes them particularly suitable, especially when blended with Buna™ CB and Buna™ Nd EZ high cis Butadiene Rubbers, for the truck tread application due to the excellent abrasion resistance offered by these S-SBR's.

PRODUCT PORTFOLIO

High Vinyl Solution Styrene Butadiene Rubber (HV SSBR)

Name	Plant	Mooney ¹ (MU)	Vinyl (%)	Styrene (%)	TDAE (phr)	Tg (°C)
Buna™ VSL 5025-2 HM	POJ	62	50	25	37.5	- 29
Buna™ VSL 4526-2	POJ	50	44.5	26	37.5	- 30
Buna™ VSL 4526-2 HM	POJ	62	44.5	26	37.5	- 30
Buna™ VSL 5228-2	POJ	50	52	28	37.5	- 20

High Styrene Solution Styrene Butadiene Rubber (HS SSBR)

Name	Plant	Mooney ² (MU)	Vinyl (%)	Styrene (%)	TDAE (phr)	Tg (°C)
Buna™ VSL 2538-2	POJ	50	25	38	37.5	-31
Buna™ VSL 2438-2 HM	POJ	80	24	38	37.5	- 32
Buna™ VSL 3038-2 HM	POJ	80	30	38	37.5	- 26

Low Vinyl Solution Styrene Butadiene Rubber (LV SSBR)

Name	Plant	Mooney ¹ (MU)	Styrene (%)	Oil (phr)	Tg (°C)
Buna™ SL 4525-0	CAB	45	25	-	- 69
Buna™ SL 4518-4	CAB	45	18	HN (37.5)	- 71
Buna™ SL 7518-4	CAB	75	18	HN (15.0)	- 73



¹ML (1+4) @ 100 °C

TIRE AND SPECIALTY RUBBERS GLOBAL FOOTPRINT



WE ARE HAPPY TO SUPPORT YOUR BUSINESS

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