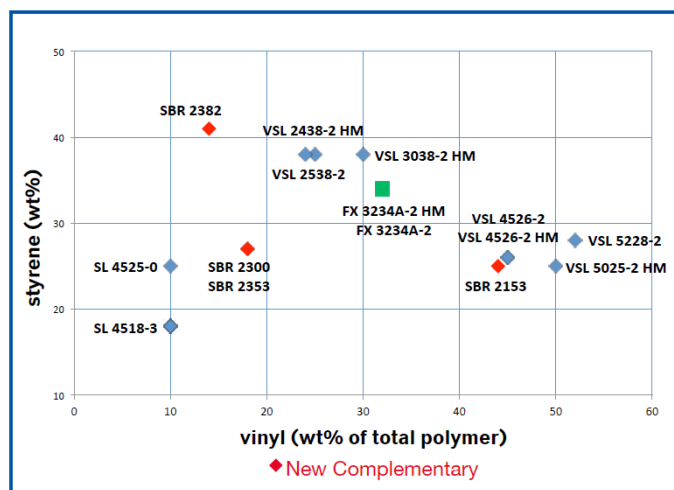


# FOUR S-SBR GRADES PRODUCED BY MICHELIN TO COMPLEMENT ARLANXEO'S S-SBR PORTFOLIO

## Properties

These four SSBR's complement the existing Buna VSL portfolio by offering microstructures and oil extensions not previously available. They are aimed to improve performance in tire tread applications and particularly where silica is used as the filler of choice.



## Applications

Buna SBR 2300 and Buna SBR 2353 are seen as a possible replacement for ESBR 1500 / 1502 and ESBR 1723 types in CB and CB / silica blends respectively.

Their low Tg close to -50°C makes them also suitable for winter and all season tread applications.

Buna SBR 2153 is a high vinyl SSBR with a low oil extension (10 phr MES oil) and targets RRc reduction through allowing reduced filler loadings. Good levels of grip can be achieved.

Buna SBR 2382 is a high styrene SSBR with a low oil extension (10 phr TDAE oil) and due to the high styrene level, imparts stiffness to the tread compound to enhance for example high speed handling. It can also be used to increase stiffness in combination with functionalised SSBR's where it is known that stiffness drops due to the improved polymer / filler interaction and reduced Payne effect. It can also be used to achieve higher dynamic stiffness in compounds where RRc has been optimised through reduction of filler loadings.

## Product Portfolio

Product name and highlights	ML 1+4 @ 100°C [MU]	Vinyl [wt.-%]	Styrene [wt.-%]	Oil [wt.-%]	Tg [°C]
Buna SBR 2300 Low Tg, oil free	54	18	27	-	-48
Buna SBR 2353 Low Tg, MES oil extended	54	18	27	25.2 MES (34 phr)	-52
Buna SBR 2153 High vinyl, MES oil extended	63	44	25	9.0 MES (10 phr)	-28
Buna SBR 2382 High styrene, TDAE oil extended	68	14	41	9.0 TDAE (10 phr)	-30

# TIRE AND SPECIALTY RUBBERS GLOBAL FOOTPRINT



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