



COMPETITIVE ADVANTAGES OF SBS

Voronezhsintezkauchuk: helping manufacturers of adhesives.

SBS-based adhesives have several advantages: they offer an improved performance and feature an optimal proportion of polymer and adhesive content. Moreover, SBS has a strong potential for replacing styrene-isoprene-styrene (SIS) polymers in adhesives for packaging tapes and hygiene products. Compared to SIS, SBS is more frost-resistant and durable; however, high adhesion is harder to achieve.

ROMAN VOSHCHINSKY

Chief Expert of the Applications Development Unit (for adhesives):

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“With our formulation, we have managed to obtain the target value of the adhesion force,” says Roman Voshchinsky, Chief Expert of the Applications Development Unit (for adhesives). “We offer our customers specific solutions at their request and understand what to do if parameters need to be changed. A good example is our cooperation with hot-melt adhesives manufacturer Ergotek. The range of Ergotek’s products includes a SIS-copolymer-based adhesive for mattress bonding.”

Main parameters of the new SBS grades

Grade	Content of bound styrene, wt %	Parameters	Application
SBS L 7417	36.0–38.0	High durability, low viscosity	Hot-melt adhesives, road marking, self-adhering roofing systems, glues and adhesives. Improved performance of formulation in road marking applications has been proven in laboratory tests.
SBS L 7322	27.5–30.5	Good solubility	Mastic compounds for road surfaces, plastic modifications, hot-melt adhesives, glues and adhesives, modified bitumen, shoe sole formulations, transparent compounds, and sealants.
SBS L 7420	38.5–41.5	High transparency and tensile strength, good low-temperature performance	Plastic modifications, hot-melt adhesives, glues and adhesives, modified bitumen, shoe sole formulations, and transparent compounds.

In 2022, it is planned to develop basic formulations for the segments using solvent-based adhesives (used in everyday household adhesives, furniture and automotive industries).