



Lion Elastomers LLC

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SBR 4503C Elastomer

Product Data

Hot polymerized SBR 4503C is used in construction mastics, adhesives and sealants intended for installing panels, furring strips, wood molding, plywood or hardboard. It offers a strong and instant bond that retains precise placement. It exhibits excellent shear strength and yields a stiffer film when used in tape, PSA or label application.

Unique Features

- ▶ Hot polymerized SBR terpolymer
- ▶ Moderate crosslinking reduces shrinkage
- ▶ Higher bound Styrene content

Applications

- ▶ Construction adhesives and mastics
- ▶ Pressure-sensitive label and tape adhesives
- ▶ Mechanical rubber goods and bead wire adhesives

Typical Properties

<u>Property</u>	<u>Test Method*</u>	<u>Typical</u>
Mill shrinkage, %	—	35 Max.
Solution viscosity, cP (4% Toluene solution)	—	110 - 400
Bound Styrene, Weight %	—	28.5 – 31.5
Organic acid, Weight %	—	4.0 – 8.0
Soap, Weight %	—	0.5 Max.
Ash, Weight %	—	1.5 Max.
Volatile matter, Weight %	ZS 1008K	0.75 Max.
Emulsifier	—	Rosin acid
Coagulant	—	Acid
Stabilizer	—	Non-Staining
Total dust, Weight % (Calcium Carbonate)	—	5.0 – 11.0
Specific gravity, g/cc (crumb).....	ASTM D-792	0.99
Color	—	Off White
Physical form**, crumb lbs/box	—	50.0 (23 kg)

SBR 4503C elastomer is produced in free flowing crumb form which eliminates the need for milling, cutting, or grinding equipment. The crumb particles retain the porous nature of the coagulated rubber and can be dissolved in solvent faster than milled or pelletized bale rubber.

* Company Test Methods

** This product is available in crumb form in 50 lb boxes.

Note: Antioxidant is added to this polymer to provide protection during manufacture and storage. The end user's process may require additional antioxidant protection.

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