



# SS4191A

## Description

SS4191A gum solution and SS4191B methyl hydrogen crosslinker, when blended according to Momentive Performance Materials instructions in the proper ratio, give the equivalent in material composition to SS4191. When further compounded into a coating bath with SS4192C catalyst, SS4259C accelerator, and solvent, the resultant composition provides similar performance properties as a properly catalyzed SS4191 coating bath.

### SYSTEM COMPONENTS:

- SS4191A silicone gum solution
- SS4191B methyl hydrogen crosslinker
- SS4192C tin catalyst
- SS4259C cure accelerator

## Typical Physical Properties

PROPERTY	SS4191A	SS4191B	SS4192C	SS4259C
Haze	30 max.	10 max.	----	30 max.
Appearance	OK	OK	OK	OK
Color Apha	----	15 max.	----	----
Color Gardner	----	----	----	2 max.
Solids %	28-30	----	41-45	48-52
Weight Loss %	----	7-10%	----	----
Solvent	toluene	NA	toluene	toluene

## Processing Recommendations

To obtain the maximum stability from the SS4191A and SS4191B components when formulating a bath, it is important to follow a specific order of addition along with adequate mixing time to assure a uniform dispersion.

Dilute the SS4191A solution to the desired concentration with an appropriate solvent and mix until thoroughly dispersed.

Add the SS4191B crosslinker and mix thoroughly. (The objective is to assure a homogeneous dispersion).

Add the SS4192C catalyst and mix until uniformly dispersed.

Add the SS4259C accelerator and mix until uniformly dispersed. The bath is now ready for use.

### SUGGESTED FORMULATIONS

SS4191A and SS4191B components are designed to be used in the ratio of 393 lbs. to 7 lbs. respectively (equivalent ratio of 100 to 1.78). To prepare a 5% solids bath, equivalent formulations are as follows: (in this example, the SS4192C catalyst and the SS4259C accelerator are both at the 2.5% levels based on the amount of SS4191A plus SS4191B components or the amount of SS4191 coating in each formulation).

4 COMPONENT SYSTEM <sup>±</sup>		3 COMPONENT SYSTEM <sup>±</sup>	
SS4191A	16.4	SS4191	16.7
Solvent	82.5	Solvent	82.5
SS4191B	0.29 (0.3)	---	--
SS4192C	0.4	SS4192C	0.4

SS4259C	0.4	SS4259C	0.4
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\* Number of Silicone (SS) Components only

## SS4191 A + B BLEND CHART

The following chart gives percent SS4191A + SS4191B components to be used in formulating various silicone solids coating baths for the SS4191A and SS4191B component system. The levels of SS4192C catalyst and SS4259C accelerator are based on 2.5%. Higher or lower levels can be used depending on application. The order of addition should be the same as shown.

### Mixing Instructions:

- Dilute the SS4191A component to the desired silicone solids concentration with your solvent and mix until thoroughly dispersed.
- Add the SS4191B component and mix until thoroughly dispersed.
- Add the SS4192C catalyst and mix thoroughly.
- Add the SS4259C accelerator and mix thoroughly.

% Silicone Solids in Coating Bath	3%	4%	5%	6%	7%	8%
% by weight of SS4191A	10.0	13.3	16.4	20.0	23.3	26.7
Solvent	89.32	85.78	82.47	78.62	75.11	71.46
SS4191B	0.18	0.24	0.29	0.36	0.41	0.48
SS4192C	0.25	0.34	0.42	0.51	0.59	0.68
SS4259C	0.25	0.34	0.42	0.51	0.59	0.68

## Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

## Product Safety, Handling and Storage

The warranty period for SS4191A is 6 months, and the warranty period for SS4191B, SS4192C and SS4259C is 12 months from date of shipment from Momentive Performance Materials if stored in the original unopened container at temperatures no greater than 25° C (77° F).

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any Momentive Performance Materials (MPM) representative. **For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center.** Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

## Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

From automotive to healthcare, from electronics to construction, products from Momentive Performance Materials Inc. are practically everywhere you look. We are a global leader in silicones and advanced materials with a 70+ year heritage of innovation and being first to market – with performance applications that improve everyday life. By knowing our customers' needs and creating custom technology platforms for them, we provide science based solutions to help customers increase performance, solve product development issues and engineer better manufacturing processes.

**Contact Information**

For product prices, availability, or order placement, contact our customer service by visiting [www.momentive.com/Contacts](http://www.momentive.com/Contacts)

For literature and technical assistance, visit our website at: [www.momentive.com](http://www.momentive.com)

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