



# Technical Data Sheet

Product Name  
**SCGC™ PVC**

Product Type  
**PVC Resin – Medical Grade**

Product Grade  
**SM58S**

## Product Description

SCGC PVC SM58S is polyvinyl chloride homopolymer resin with low molecular weight for medical application. SM58S is white and free flowing resins produced by suspension polymerization process. The resin can easily blend with variety of additives to achieve desired qualities needed in many applications.

## Typical Application

- Medical rigid & semi-rigid part
- Medical devices (connector, wing, cap, chamber, etc.)

## Product Characteristics

- Excellent thermal stability

## International Compliance

- REACH Compliance, EU
- Biocompatibility Test

## Physical Properties

Properties	Test Method	Typical Value	Unit
K-Value	ISO – 1628-2	58.0*	-
Apparent Bulk Density	ISO – 60	0.58	g/ml
Volatile Matter	ISO – 1269	< 0.3	%
Sieve Analysis	ASTM D – 1921		
• Retained on 250 micron		<2	%
• Retained on 75 micron		> 90	%
Impurity and Foreign Matter	TPC Method	2	Points/100g
Fisheye (145 °C, 5 minutes)	TPC Method	2	Point/150cm <sup>2</sup>
Residual VCM	ASTM D3749	< 1	ppm
Elution Test	TPC Method	Passed	-

**Note:** \*Corresponding Polymerization Degree = 700



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### Processing Guidelines

PVC resin needs to be compounded with the properly additives by using standard mixing techniques. The optimum processing condition for each convertor depends on the formulation and the machine. Generally, the processing temperature is 120 to 170°C for soft products and 170 to 210°C for rigid products.

### Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products, contact your SCG Chemicals technical services at the address as specified below.

### Product Available Form

- White powder
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### Product Packaging

- 25 kg paper bag
- 550 kg and 1,100 kg flexy bag
- 10 MT and 20MT tank car
- 17 MT seabulk

### Storage

- Use with adequate ventilation. Avoid contact with eyes and skin. Good housekeeping measures should be used and accumulations of materials should be removed from settling areas.
- Polyvinyl Chloride can acquire a substantial static electrical charge. Handling and processing equipment should have an electrical grounding.
- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area. Store in a well-ventilated area. Avoid heat, flames, sparks and other sources of ignition.
- Recommend to use the product within 1 year, start from manufacturing period which is referenced from lot number printed on package, to prevent any changing.
- Arrange product properly and correctly methods. For more information, please see “PVC User manual”

### Safety

- The product is not classified as a hazardous material.
- Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your SCG Chemicals technical services.



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## Recycling

- The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.
- Please see our Material Safety Datasheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your SCG Chemicals technical services.

## Related Documents

- The latest version of this document will be available at our website, [www.scgchemicals.com](http://www.scgchemicals.com), or can be obtained from the SCG Chemicals technical services.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
  - Safety Data Sheet.
  - PVC User Manual.

## Disclaimer

- The Applications specified herein is for reference only.
- It is customer's responsibilities to inspect and test the product for suitability of the customer's own use and purpose. The customer is responsible for appropriate, safe, legal use, processing and handling of the product.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. We however do not assume any liability whatsoever for the accuracy and completeness of the information contained herein.
- We make no warranties which extend beyond the description herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- No liability can be accepted in respect of the use of the product in conjunction with other materials. The information contained herein relates exclusively to the product when it is not used in conjunction with any third party's materials