



Technical Data Sheet

Product Name
**SCGCTM PVC:
Resin**

Product Type
PVC Resin - Medical Grade

Product Grade
SM71S

Product Description

SCGC PVC SM71S is polyvinyl chloride homopolymer with a high molecular weight for medical application. SM71S is a white, free-flowing resin produced by a suspension polymerization process. The resin can be easily blended with a variety of additives to achieve the desired qualities needed in many applications.

Typical Application

- Flexible medical films and sheets
- Flexible medical device such as nasal tubes, blood tubes, and blood bags

Product Characteristics

- Good thermal stability
- Low content of impurities
- Very low fish eye
- Odorless
- Good mechanical performance

International Compliance

- RoHS Directive 2011/65/EU (Annex II) [amended by Directive (EU) 2015/863]
- EU REACH Compliance (Under control EU import volume)
- US FDA 21 CFR 175.300
- European Commission Regulation (EU) No 10/2011
- Biological Reactivity Tests USP 38, ASTM F576-93

Note:

The information provided is based on our knowledge and is intended as a guide. Users are responsible for testing the products for their specific application and complying with all applicable laws and regulations. The Company makes no warranties or guarantees to any use of the product in any application. It is strongly recommended to discuss with the Company's technical service team if you may have any concern regarding activities for producing and/or manufacturing of the product in any applications related to medical devices, cosmetics packaging, personal care packaging, food and feed packaging, drinking water, etc.

Physical Properties

Properties	Test Method	Typical Value	Unit
K-Value	ISO 1628-2	71.6	-
Apparent Bulk Density	ISO 60	0.51	g/ml
Volatile Matter	ISO 1269	0.1	%
Sieve Analysis: Retained on 250 microns	ASTM D1921	0.3	%
Sieve Analysis: Retained on 75 microns	ASTM D1921	98.4	%
Impurity and Foreign Matter	TPC Method	1	Points/100 g
Residual VCM	ASTM D3749	0.1	ppm
Fisheye @ 145C, 5minutes	TPC Method	3	points/150 cm ²
Elution Test	TPC Method	passed	-

Note: • The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.

- Corresponding Polymerization Degree = 1,280



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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

Product Packaging

- 25 kg loose bag
- 550 kg and 1,100 kg flexy bag
- 10 MT and 20 MT 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, 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.
 - Material 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.