



Technical Data Sheet

Product Name
SCGC PVC

Product Type
PVC Resin – Medical Grade

Product Grade
SM71E

Product Description

SCGC PVC SM71E is polyvinyl chloride homopolymer resin with high molecular weight for medical application. SM71E 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 flexible film & sheet
- Medical flexible devices (nasal tube, blood tube, blood bag, etc.)

Product Characteristics

- Good thermal stability
- Very low fisheye

International Compliance

- REACH Compliance, EU
- Biological Test, Japan

Physical Properties

| Properties | Test Method | Typical Value | Unit |
|-----------------------------|---------------|---------------|--------------------------|
| K-Value | ISO – 1628-2 | 71.0* | - |
| Apparent Bulk Density | ISO – 60 | 0.49 | 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 | 1 | Points/100g |
| Fisheye (145 °C, 5 minutes) | TPC Method | 3 | Point/150cm ² |
| Residual VCM | ASTM D3749 | < 1 | ppm |
| Elution Test | TPC Method | Passed | - |

Note: *Corresponding Polymerization Degree = 1,300



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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 service at the address or telephone number as specified below.

Product Available Form

- White powder

Product Packaging

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

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited.
- Product(s) should be stored in dry and dust free location at temperature below 50 °C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.
- Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

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 service.



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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 service.

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 service.
- 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