



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
- Biocompatibility Test

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

Thai Plastic and Chemicals Public Company Limited





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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 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”

