



Technical Data Sheet

Product Name
SCGC™ PVC

Product Type
PVC Resin – Low K-Value Grade

Product Grade
SG500

Product Description

SCGC PVC SG500 is polyvinyl Chloride Homopolymer having low molecular weight, SG500 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. Applications are ranging from general purpose to special products regarding customer's satisfactions.

Typical Application

- Pipe fitting
- Other rigid injection products

Product Characteristics

- Excellent fusion property
- Good initial coloration
- Excellent thermal stability

International Compliance

- REACH compliance, EU
- RoHS Directive 2011/65/EU Annex II

Physical Properties

Properties	Test Method	Typical Value	Unit
K-Value	ISO 1628-2	49.0*	-
Apparent Bulk Density	ISO 60	0.59	g/ml
Volatile Matter	ISO 1269	< 0.3	%
Sieve Analysis	ASTM D 1921		kg/cm ²
• Retained on 250 micron		< 2	%
• Retained on 75 micron		> 90	%
Impurity and Foreign Matter	ISO R 1265	< 10	points/ 100 squares
Residual VCM	ASTM D 3749	< 1	ppm

Note: *Corresponding Polymerization Degree = 450

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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

- Paper bag 25 kilograms
- Flexy bag 550 and 1,100 kilograms
- Tank car 10 and 20 metric tons
- Sea bulk 17 metric tons

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”

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