



Technical Data Sheet

Product Type

PVC Resin – General Grade

Product Name

SCGC™ PVC

Product Grade

SG580

Product Description

SCGC PVC SG580 is polyvinyl chloride homopolymer having low molecular weight, SG580 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

- Floor tile
- Pipe fitting
- Rigid foam sheet
- Other rigid profiles
- Other injection products

Product Characteristics

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

International Compliance

- REACH compliance, EU
- Food contact applicable*
(US FDA CFR 175.300)
- Not contained of specified substances according to RoHS, EU

*this will legally not exempt the producers of final Food contact articles to perform testing on their own products.

Physical Properties

Properties	Test Method	Typical Value	Unit
K-Value	ISO 1628-2	58.0*	-
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		> 85	%
Impurity and Foreign Matter	TPC Method	3	points/ 100g
Residual VCM	ASTM D 3749	< 1	ppm

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

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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