



TECHNICAL DATA SHEET

Product Name

SCG PVC

Product Type

PVC Paste Resin: Special Foam Series

Product Grade

PF621

Product Description

PF621 is a low molecular weight homopolymer PVC Paste resin, produced by TPC Paste Resin Co., Ltd. under OxyChem's HYBRID® Technology.

Typical Application

- **Wallpaper**
Hot embossing methods
- **Others**
Non-Foamed,
Low gel and fusion products

Product Characteristics

- Exhibits low viscosity even at high filler dosage, especially with DOTP plasticizer.
- Exhibits excellent foaming properties in chemically blown foams even at high filler loads.
- Give foam with highest whiteness
- Foam achieved at high expansion levels
- Give very fine closed cell and uniform cell size
- Very good heat stability

International Compliance

- RoHS Directive 2011/65/EU Annex II
- Best Practice Guidelines for PVC; Green Building Council of Australia (GBCA)

Physical Properties

Property	Test Method	Typical Value ¹	Unit
K value	ISO-1628-2	63	-
Degree of Polymerization	refer JIS K 6721	870	-
Brookfield Viscosity ²	ASTM D1824 @ 20 rpm	113	Poise
Severs Viscosity ³	RY-W-QC-E030	66	Poise
Volatile Content	ISO-1269 @ 110 °C	0.2	%

Note: ¹ The above given values are typical test results which should be used as a guide only. They do not form the whole or part of a specification or guarantee.

² Brookfield viscosity at condition of 23 ± 0.5 °C, 2 hours after mixing, DOP 60 phr

³ Severs viscosity at condition of 25 ± 0.5 °C, 2 hours after mixing, DOP 60 phr

Processing Guidelines

The actual processing condition depends on each machine type, raw materials, formulation, mold design, production speed, etc. Generally, this product should be used at process temperature 180-210 °C with heat stabilizer additive for conventional oven.

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.



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Product Available Form

- White powder

Product Packaging

- 25 KG multi-layer paper bag
- 875 KG wooden pallet

Storage

- Store in original container from TPC Paste Resin Company Limited.
- Product(s) should be stored in dry, cool and dust free location at temperature below 40 °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. Good housekeeping measures should be used
- Accumulations of PVC dust should be removed from setting areas to prevent dust explosion or source of fire.
- Avoid contact with eyes and skin
- 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.
- In order to avoid PVC compaction and pallets collapse, it is not recommended stacking pallets more than two layers.
- Recommend to use the product within 1 year, start from manufacturing date on package, to prevent the coagulation and any changing.
- Arrange product properly and correctly methods. For more information, please see "PVC Paste Resin User Manual"

Safety

- The product is not classified as a hazardous material.
- Please see our Safety Data Sheet and PVC Paste Resin User Manual for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your technical service.
- Although PVC paste resin by themselves will not support combustion, they will burn if continuously exposed to an open flame. It is, therefore, recommended to keep them away from heat sources.
- Inhalation of dust and vaporization of toxic vapor such as ammonia and residue vinyl chloride monomer (RVCM) may cause irritating to the respiratory system.
- Wear mask and safety glasses or goggles with high efficiency dust, mist and fume filters.
- Recommend to use the operating temperature in controlled range to prevent the resin burn or vaporization of toxic substance (see in PVC Paste Resin User Manual) or contact technical service.

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 Safety Data Sheet and PVC Paste Resin User Manual for details on various aspects of safety, recovery and disposal of the products; for more information, contact your 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 technical services.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
 - Safety Data sheet
 - PVC Paste Resin User Manual
 - Statement on compliance to Food Contact Regulations
 - Statement on compliance to RoHS Directive 2011/65/EU Annex II
 - Statement on compliance to Best Practice Guidelines for PVC; Green Building Council of Australia (GBCA)

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 material