



Technical Data Sheet

Product Type

PVC Paste Resin: Special Foam Series

Product Name
**SCGC™ PVC:
Paste Resin**

Product Grade
PF682

Product Description

PF682 is a medium molecular weight homopolymer paste PVC resin, produced by TPC Paste Resin Co., Ltd. under OxyChem's HYBRID® Technology.

Typical Application

- **Synthetic leather;** Foam layer
- **Wallpaper**
- **Flooring;** Foam layer for cushioned vinyl flooring, Yoga Mat

Product Characteristics

- Provides a fine, closed-cell, and homogeneous cell structure
- Achieves high foam whiteness
- Achieves substantial expansion levels in foam
- Exhibits slightly pseudoplastic rheology, with higher viscosity at low shear and lower viscosity at high shear
- 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

| Properties | Test Method | Typical Value | Unit |
|--------------------------------|----------------------|---------------|-------|
| K-Value | ISO 1628-2 | 69.9 | - |
| Degree of Polymerization | refer JIS K 6721 | 1180-1250 | - |
| Brookfield Viscosity at 20 rpm | ASTM D 1824 @ 20 rpm | 56 | poise |
| Sever Viscosity at 80 psi | RY-W-QC-E030 | 110 | poise |
| Volatile Matter | ISO 1269 | 0.20 | % |

Note: • The given values are typical value measured on the product. Values herein are not to be construed as a product specification.
• Brookfield viscosity at condition of $23\pm0.5^{\circ}\text{C}$, 2 hours after mixing, DOP 60 phr
• Severs viscosity at condition of $25\pm0.5^{\circ}\text{C}$, 2 hours after mixing, DOP 60 phr



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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 services at the address as specified below.

Product Available Form

- White powder
- 25 kg multi-layer paper bag
- 875 kg wooden pallet

Product Packaging

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 odor generation and color 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 sloped.
- 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 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 services.



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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 services.

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 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

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.