PVC PASTE
RESIN
SCG Chemicals, one of the three core business units of SCG, has embarked upon the chemicals business since 1989.

It manufactures and supplies a full range of petrochemical products, ranging from upstream petrochemicals (Olefins), intermediate petrochemicals (Styrene Monomer, PTA, and MMA), to downstream petrochemicals (all four main plastic resins - Polyethylene, Polypropylene, Polyvinyl Chloride, and Polystyrene).

Presently one of the largest integrated petrochemical companies in Thailand and a key industry leader in Asia and the Pacific, SCG Chemicals has over 5,000 people employed by the 70 companies in the group located all over the globe.

Widely recognized for its quality products as well as excellent management and international standard operations throughout the organization, SCG Chemicals has entered into joint venture deals with a number of the world’s leading chemicals firms, including the Dow Chemical Company of the USA, and Mitsui Chemicals and Mitsubishi Rayon of Japan.

Our Production Capacity
Total Capacity : 2,818 KTA
(PE / PP / PVC)

Polyolefin
Total : 1,852 (KTA)

PVC
Total : 966 (KTA)
PVC Paste Resin

SCG Chemicals’ PVC Paste Resin (Emulsion or Dispersion PVC) is a specialty PVC produced by one of its subsidiaries, TPC Paste Resin Co., Ltd., with distinctive "HYBRID TECHNOLOGY". The resin is mixed with plasticizers and additives, then Plastisol or Organosol is obtained in thickened paste form which can be used in various industrial fields; surface coating, making molding work, dipping, or spraying upon materials etc.

ABOUT HYBRID TECHNOLOGY

HYBRID TECHNOLOGY extracts the distinguished properties from two conventional paste PVC manufacturing processes; it combines fast polymerization and good latex stability of Emulsion process and excellent particle size control of the Micro-Suspension Hybrid Technology process. Our PVC Paste resin therefore excels in low viscosity, high clarity, excellent transparency, high gloss surface, and outstanding tensile strength.

We are also accepted by international standards such as RoHS Directive US FDA 21 CFR 175.300 (Resinous and Polymeric Coatings), Best Practice Guideline for PVC; Green Building Council of Australia (GBCA), and EU 10/2011 on plastic material and articles intended to come into contact with food.
## General Purpose PVC Paste Resin

<table>
<thead>
<tr>
<th>Grade</th>
<th>PG620 (62GP)</th>
<th>PG680 (68GP)</th>
<th>PG740 (74GP)</th>
<th>PG770 (77GP)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>K Value</strong>&lt;br&gt;ISO 1628-2 (Typical Value)</td>
<td>63</td>
<td>69</td>
<td>75</td>
<td>80</td>
</tr>
<tr>
<td><strong>Degree of Polymerization</strong>&lt;br&gt;Refer to JIS K6721 (Typical Value)</td>
<td>800</td>
<td>1,110</td>
<td>1,490</td>
<td>1,940</td>
</tr>
<tr>
<td><strong>Brookfield Viscosity (1)</strong>&lt;br&gt;ASTM D1624 (Typical Value)</td>
<td>35</td>
<td>34</td>
<td>29</td>
<td>27</td>
</tr>
<tr>
<td><strong>Severs Viscosity (2)</strong>&lt;br&gt;RY-W-QC-E030 (Typical Value)</td>
<td>68</td>
<td>71</td>
<td>80</td>
<td>102</td>
</tr>
<tr>
<td><strong>Volatile Content (3)</strong>&lt;br&gt;ISO 1269 at 110°C (Typical Value)</td>
<td>&lt; 0.30</td>
<td>&lt; 0.30</td>
<td>&lt; 0.30</td>
<td>&lt; 0.30</td>
</tr>
</tbody>
</table>

### Key Characteristic
- Low viscosity and good viscosity stability
- Fast activation
- Low fusion temperature
- Low viscosity and good viscosity stability
- Good air release property
- Good heat stability
- Foam with a fine and homogenous cell structure
- Low viscosity and good viscosity stability
- Good air release property
- Good heat stability
- High physical strength
- Low viscosity and good viscosity stability
- Good air release property
- Very good heat stability
- Excellent physical strength

### Recommended Application
- Synthetic leather (foam layer)
- Wallpaper
- Adhesive
- Plastisols for dipping, slush, and rotational molding
- Automotive sealant and adhesive
- Printing ink
- Carpet adhesive and backing
- Synthetic leather (foam & adhesive layer)
- Foam for cushioned vinyl flooring
- Wallpaper
- Tarpaulin
- Cap seal liner
- Synthetic leather (top layer)
- Tarpaulin
- Embossed foam for synthetic leather
- Wall covering
- Conveyor belt
- Products made by rotational molding, slush molding, dipping or casting
- Automotive sealant
- Synthetic leather (high strength top layer)
- High strength tarpaulin
- Glove
- Automotive sealant

### Remarks:
1. Reported in unit of Poise at condition 20 rpm, 23 ± 0.5°C, 60 phr of DOP
2. Reported in unit of Poise at condition 80 psi, 25 ± 0.5°C, 60 phr of DOP
3. Reported in unit of Percentage
## Specialty Foam PVC Paste Resin

<table>
<thead>
<tr>
<th>Grade</th>
<th>PS670 (67SF)</th>
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</thead>
<tbody>
<tr>
<td><strong>K Value</strong></td>
<td></td>
</tr>
<tr>
<td>ISO 1628-2</td>
<td>68</td>
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<tr>
<td>(Typical Value)</td>
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<tr>
<td><strong>Degree of Polymerization</strong></td>
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<tr>
<td>Refer to JIS K6721</td>
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<tr>
<td><strong>Brookfield Viscosity (1)</strong></td>
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<tr>
<td>ASTM D1824</td>
<td>65</td>
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<tr>
<td>(Typical Value)</td>
<td></td>
</tr>
<tr>
<td><strong>Severs Viscosity (2)</strong></td>
<td></td>
</tr>
<tr>
<td>RY-W-QC-E030</td>
<td>292</td>
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<tr>
<td>(Typical Value)</td>
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</tr>
<tr>
<td><strong>Volatile Content (3)</strong></td>
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</tr>
<tr>
<td>ISO 1269 at 110°C</td>
<td>&lt; 0.30</td>
</tr>
<tr>
<td>(Typical Value)</td>
<td></td>
</tr>
</tbody>
</table>

### Key Characteristic

- High foaming
- Very fine foam cell structure
- Good foam overblow protection
- Low fusion temperature
- High plasticizer dosage

### Recommended Application

- Vinyl flooring
- Vinyl insulation foam
- Carpet adhesive and backing
- Low fusion temperature applications

### Remarks:

1. Reported in unit of Poise at condition 20 rpm, 23 ± 0.5°C, 60 phr of DOP
2. Reported in unit of Poise at condition 80 psi, 25 ± 0.5°C, 60 phr of DOP
3. Reported in unit of Percentage
High Clarity PVC Paste Resin

<table>
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<tr>
<th>Grade</th>
<th>PC750 (7SHC)</th>
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</thead>
<tbody>
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<td><strong>K Value</strong></td>
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<tr>
<td>ISO 1628-2</td>
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<td>(Typical Value)</td>
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<tr>
<td><strong>Degree of Polymerization</strong></td>
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<tr>
<td>Refer to JIS K6721</td>
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<td><strong>Brookfield Viscosity (1)</strong></td>
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<td>ASTM D1824</td>
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<tr>
<td>(Typical Value)</td>
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<tr>
<td><strong>Severs Viscosity (2)</strong></td>
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<tr>
<td>RY-W-QC-E030</td>
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<tr>
<td>(Typical Value)</td>
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</tr>
<tr>
<td><strong>Volatile Content (3)</strong></td>
<td>&lt; 0.30</td>
</tr>
<tr>
<td>ISO 1269 at 110°C</td>
<td></td>
</tr>
<tr>
<td>(Typical Value)</td>
<td></td>
</tr>
</tbody>
</table>

**Key Characteristic**
- Low viscosity and good viscosity stability
- Good air release property
- High gloss
- High clarity
- High physical strength

**Recommended Application**
- Vinyl flooring (wear layer)
- High gloss tarpaulin
- Premium top coated products

**Remarks:**
(1) Reported in unit of Poise at condition 20 rpm, 23 ± 0.5°C, 60 phr of DOP
(2) Reported in unit of Poise at condition 80 psi, 25 ± 0.5°C, 60 phr of DOP
(3) Reported in unit of Percentage

**Disclaimer:**
- The products can be used only for application specified herein.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however, we do not assume any liability whatsoever for accuracy and completeness of such information.
- We make no warranties, which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for particular propose.
- It is the customers’ responsibility to inspect and test our products in order to satisfy oneself as to the suitability of the products for the customers’ particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.
- No liability can be accepted with respect to the use of our products in conjunction with other materials. The information contained herein related exclusively to our products when not used in conjunction with any third party materials.
- Please see our Material Data Sheet for details on various aspect of safety, recovery and disposal of the products.

Rev. May 2016 valid until next revision
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