

**PVC**  
**PASTE RESINS**





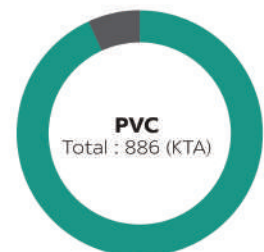
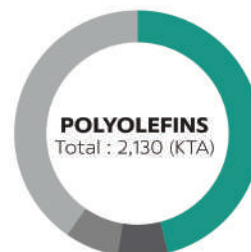
## About SCG Chemicals or SCGC

SCG Chemicals or SCGC is one of the leader in sustainable chemical innovations and manufacturing in Thailand and ASEAN that offers a full range of petrochemical products ranging from upstream production of olefins to downstream production of 3 main plastics resins: polyethylene, polypropylene, and polyvinyl chloride including finished products.

SCGC is committed to conducting business in line with Environmental, Social, and Governance (ESG) and achieving Sustainable Development Goals (SDGs). SCGC is developing new technology and innovation to create high value added products (HVA) and holistic service solutions concerning growing areas such as circular economy, medical & healthcare, and electric vehicle (EV) to better meet diverse places and emphasis demands sustainable environmental stewardship.

### OUR PRODUCTION CAPACITY (AS OF 2021)

**TOTAL CAPACITY : 3,016 KTA** (PE / PP / PVC)



## ESG Strategic Directions



**“INNOVATION THAT’S REAL”**





## PVC PASTE RESINS

**SCGC™ PVC paste resins can produce end products that are both aesthetically pleasing and adhere to high safety and environmental standards.**

The growth of the transportation, building and infrastructure, medical, and consumer product industries come with higher standards expected from consumers and producers worldwide.

In recognition of its great responsibility, SCGC has developed SCGC™ polyvinyl chloride (PVC) paste resins made with its uniquely advanced hybrid technology. Also known as emulsion or dispersion PVCs, these resins are mixed with plasticizers and additives to produce plastisols in paste form, which can be used in many processes, such as surface coating, dipping, spraying, and molding to make various products, such as wallpapers, automotive sealant, tarpaulins and synthetic leather.

With excellent clarity, mechanical strength, foaming properties, and low viscosity, SCGC™ PVC paste resins can produce end products that are

both aesthetically pleasing and adhere to high safety and environmental standards, such as the Green Building Council of Australia (GBCA), RoHS Directive, and REACH<sup>(1)</sup>

Thus, SCGC believes in partnering with manufacturers for responsible growth, enabling them to find more efficient ways to produce quality products. Our technical team collaborates with manufacturers to explore ways to use less raw materials and energy, discover new applications, or find optimal solutions based on specific needs and requirements.

With sustainability at the core of our business, SCGC is passionately committed to improving people's lives and protecting the world for future generations.

*Remark:* (1) certified under registered volume



### Design for Sustainability

3 GOOD HEALTH AND WELL-BEING



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



17 PARTNERSHIPS FOR THE GOALS





## SCGC™ PVC: for Foaming Applications



PF621	
Characteristics	<ul style="list-style-type: none"> <li>- Low viscosity even at high filler loads</li> <li>- Excellent foaming properties in chemically blown foams even at high filler loads</li> <li>- High foam whiteness</li> <li>- Foam achieved at high expansion levels</li> </ul>
Applications	<ul style="list-style-type: none"> <li>- Wallpaper</li> <li>- Printing ink</li> </ul>

## SCGC™ PVC: for General Purpose



PG740	
Characteristics	<ul style="list-style-type: none"> <li>- Low viscosity</li> <li>- High transparency and glossy surface</li> <li>- High mechanical strength; tensile and elongation</li> </ul>
Applications	<ul style="list-style-type: none"> <li>- Tarpaulins</li> <li>- Synthetic leathers</li> <li>- Automotive sealants and mastics</li> <li>- Floorings</li> </ul>

# PVC PASTE RESINS

## Specialty Foam PVC Paste Resins

GRADE	PF621	PF682	PF741
<b>K value</b> ISO 1682-2 (-)	63	69	74
<b>Degree of polymerization (DP)</b> Refer to JIS K6721 (-)	870	1,160	1,465
<b>Brookfield viscosity</b> ASTM D1824 (Poise)	113	63	41
<b>Severs viscosity</b> RY-W-QC-E030 (Poise)	72	115	80
<b>Volatile content</b> ISO 1269 at 100 C (%)	0.20	0.20	0.20
<b>Key characteristics</b>	<ul style="list-style-type: none"> <li>- Compatible with non-phthalate plasticizer</li> <li>- Very fine closed cells and homogenous cell structure</li> <li>- High foam whiteness</li> <li>- Foaming at high expansion levels</li> <li>- Slightly pseudoplastic (slightly viscous at low and high shear mixing)</li> <li>- Good heat stability</li> </ul>	<ul style="list-style-type: none"> <li>- Very fine closed cells and homogeneous cell structure</li> <li>- High foam whiteness</li> <li>- Foaming at high expansion levels</li> <li>- Slightly pseudoplastic (slightly viscous at low and high shear mixing)</li> <li>- Good heat stability</li> </ul>	<ul style="list-style-type: none"> <li>- Good foaming properties and fine cell structure</li> <li>- Thicker chemically blown foams with high plasticizer contents</li> <li>- Exhibits no flow-like dilatancy even at high shear rates</li> <li>- Good viscous stability</li> <li>- High physical strength</li> </ul>
<b>Recommended applications</b>	<ul style="list-style-type: none"> <li>- Wallpapers</li> <li>- Printing inks</li> </ul>	<ul style="list-style-type: none"> <li>- Synthetic leathers (foam layer)</li> <li>- Wallpapers</li> <li>- Flooring (foam layer for cushioned vinyl floorings, yoga mats)</li> <li>- Dotted gloves</li> </ul>	<ul style="list-style-type: none"> <li>- Synthetic leathers (top and foam layers)</li> <li>- Automotive sealants and mastics</li> </ul>

Remark: Typical values only



# PVC PASTE RESINS

## High Clarity PVC Paste Resins

GRADE	PC750
<b>K value</b> ISO 1682-2 (-)	76
<b>Degree of polymerization (DP)</b> Refer to JIS K6721 (-)	1,630
<b>Brookfield viscosity</b> ASTM D1824 (Poise)	33
<b>Severs viscosity</b> RY-W-QC-E030 (Poise)	100
<b>Volatile content</b> ISO 1269 at 100 C (%)	0.20
<b>Key characteristics</b>	<ul style="list-style-type: none"> <li>- High glossy surface</li> <li>- High clarity</li> <li>- High mechanical strength</li> </ul>
<b>Recommended applications</b>	<ul style="list-style-type: none"> <li>- Tarpaulins (with highly glossy surfaces)</li> <li>- Synthetic leathers (with highly glossy top layers)</li> <li>- Floorings (top layers)</li> <li>- Strand and mesh coatings</li> <li>- Toys, logos, and transparent terminal sleeves</li> </ul>

Remark: Typical values only



# PVC PASTE RESINS

## General Purpose PVC Paste Resins

GRADE	PG680	PG740	PG770
<b>K value</b> ISO 1682-2 (-)	69	74	79
<b>Degree of polymerization (DP)</b> Refer to JIS K6721 (-)	1,140	1,480	1,860
<b>Brookfield viscosity</b> ASTM D1824 (Poise)	34	30	28
<b>Severs viscosity</b> RY-W-QC-E030 (Poise)	86	87	101
<b>Volatile content</b> ISO 1269 at 100 C (%)	0.20	0.20	0.20
<b>Key characteristics</b>	<ul style="list-style-type: none"> <li>- Foams with a fine and homogenous cell structure</li> <li>- Low viscosity and good viscous stability</li> <li>- Excellent air release properties</li> <li>- Good heat stability</li> </ul>	<ul style="list-style-type: none"> <li>- Low viscosity and good viscous stability</li> <li>- Excellent air release properties</li> <li>- Good heat stability</li> <li>- High mechanical strength</li> </ul>	<ul style="list-style-type: none"> <li>- Excellent mechanical strength</li> <li>- Low viscosity and good viscous stability</li> <li>- Good air release properties</li> <li>- Excellent heat stability</li> </ul>
<b>Recommended applications</b>	<ul style="list-style-type: none"> <li>- Synthetic leather (foam layer, adhesive layer)</li> <li>- Wallpaper</li> <li>- Flooring (foam layer for cushioned vinyl floor, backing layer for carpet tiles)</li> <li>- Strand &amp; Mesh coating</li> <li>- Automotive sealants &amp; mastic</li> </ul>	<ul style="list-style-type: none"> <li>- Tarpaulin</li> <li>- Synthetic leather (Top layer)</li> <li>- Automotive sealants &amp; mastic</li> <li>- Conveyor belts</li> <li>- Flooring (Top layer)</li> <li>- Strand &amp; Mesh coating</li> <li>- Toys, tool handle, terminal sleeve</li> <li>- Printing ink</li> </ul>	<ul style="list-style-type: none"> <li>- Disposable gloves</li> <li>- Synthetic leather (high strength top layer)</li> <li>- High strength tarpaulin</li> <li>- Strand &amp; Mesh coating</li> <li>- Flooring (high strength top layer)</li> <li>- Can coating</li> <li>- Automotive sealants &amp; mastic</li> </ul>

Remark: Typical values only



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