PVC
PASTE RESIN

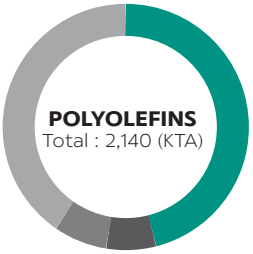
About SCG Chemicals or SCGC

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.

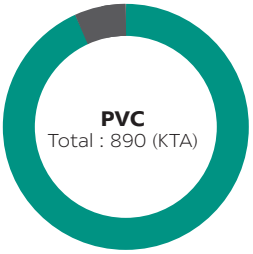
SCGC is committed to conducting business in line with Environmental, Social, and Governance (ESG) and achieving Sustainable Development Goals (SDGs). SCGC is developing new technology and innovation to create high value added products (HVA) and holistic service solutions concerning growing areas such 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 2025)

TOTAL CAPACITY : 3,030 KTA (PE / PP / PVC)



HDPE	980 KTA
LLDPE	140 KTA
LDPE	160 KTA
PP	860 KTA



PVC	850 KTA
PVC Paste	40 KTA

ESG Strategic Directions

"INNOVATION THAT'S REAL"

PVC
PASTE RESIN

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

The growth of transportation, automotive, 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 resin made with its uniquely advanced hybrid technology. Also known as emulsion or dispersion PVCs, these resin 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 wallpaper, automotive sealant, tarpaulin and synthetic leather.

With excellent clarity, superior machanical strength, foaming properties, and low viscosity, SCGC™ PVC paste resin 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[(1)] BIS (Bureau Of Indian Standards)

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

SCGC™ PVC:
for Techinical Coating and Auto Sealant Application

Tarpaulin

PG740	
Characteristics	- Low viscosity - High transparency and glossy surface - High machanical strenght, tensile and elongation
Applications	- Tarpaulin - Synthetic leather - Automotive sealant and mastic - Flooring

Under Body Coating

PR701	
Characteristics	- Excellent pseudoplastic flow behavior which suitable for spray coating process - High flow ability with slow drop rate of plastisol viscosity - No sagging and sliding overtime after apply on ED panel surface - Good mechanical properties - Good viscosity stability
Applications	- Under body coating for automotive - Additive for synthetic leather

SCGC™ PVC:
for Wallpaper Application

Wallpaper

PF621	
Characteristics	- Low viscosity even at high filler loads - Excellent foaming properties in chemically blown foams even at high filler loads - High foam whiteness - Foam achieved at high expansion levels
Applications	- Wallpaper - Printing ink

PVC PASTE RESIN
for Techinical Coating PVC Paste Resin

GRADE	PG680	PG740	PG770
Recommended applications	- Synthetic leather (foam layer, adhesive layer) - Wallpaper - Flooring (foam layer for cushioned vinyl floor, backing layer for carpet tile) - Strand & Mesh coating - Automotive sealants & mastic	- Tarpaulin - Synthetic leather (Top layer) - Automotive sealants & mastic - Conveyor belt - Flooring (Top layer) - Strand & Mesh coating - Toys, tool handle, terminal sleeve - Printing ink	- Disposable gloves - Synthetic leather (high strength top layer) - High strength tarpaulin - Strand & Mesh coating - Flooring (high strength top layer) - Can coating - Automotive sealant & mastic
K value ISO 1682-2 (-)	69.2	74.4	79.3
Degree of polymerization (DP) Refer to JIS K6721 (-)	1,140 - 1,210	1,410 - 1,560	1,830 - 1,930
Brookfield viscosity ASTM D1824 (Poise)	33	30	28
Severs viscosity RY-W-QC-E030 (Poise)	81	89	99
Volatile content ISO 1269 at 100 C (%)	0.20	0.20	0.20
Key characteristics	- Foams with a fine and homogenous cell structure - Low viscosity and good viscous stability - Excellent air release properties - Good heat stability	- Low viscosity and good viscous stability - Excellent air release properties - Good heat stability - High mechanical strength	- Excellent mechanical strength - Low viscosity and good viscous stability - Good air release properties - Excellent heat stability

Remark: Typical values only

PVC PASTE RESIN
Specialty PVC Foam

GRADE	PF621	PF682	PF741
Recommended applications	- Wallpaper - Printing ink	- Synthetic leather (Foam layer) - Wallpaper - Flooring (Foam layer for cushioned vinyl flooring, yoga mat) - Dotted gloves	- Synthetic leather (Top and foam layer) - Automotive sealant and mastic
K value ISO 1682-2 (-)	62.9	69.9	74.2
Degree of polymerization (DP) Refer to JIS K6721 (-)	860 - 910	1,180 - 1,250	1,140 - 1,510
Brookfield viscosity ASTM D1824 (Poise)	78	56	38
Severs viscosity RY-W-QC-E030 (Poise)	65	110	75
Volatile content ISO 1269 at 100 C (%)	0.20	0.20	0.20
Key characteristics	- Compatible with non-phthalate plasticizer - Very fine closed cells and homogenous cell structure - High foam whiteness - Foaming at high expansion levels - Slightly pseudoplastic (slightly viscous at low and high shear mixing) - Good heat stability	- Very fine closed cells and homogeneous cell structure - High foam whiteness - Foaming at high expansion levels - Slightly pseudoplastic (slightly viscous at low and high shear mixing) - Good heat stability	- Good foaming properties and fine cell structure - Thicker chemically blown foams with high plasticizer contents - Exhibits no flow-like diatancy even at high shear rates - Good viscous stability - High physical strength

Remark: Typical values only

PVC PASTE RESIN
High Clarity PVC Paste Resin

GRADE	PC750
Recommended applications	- Tarpaulin with highly glossy surface - Synthetic leather wiith highly glossy top layer - Flooring (Top layer) - Strand and mesh coating Toy, logo, and transparent terminal sleeve
K value ISO 1682-2 (-)	76.1
Degree of polymerization (DP) Refer to JIS K6721 (-)	1,580 - 1,640
Brookfield viscosity ASTM D1824 (Poise)	31
Severs viscosity RY-W-QC-E030 (Poise)	91
Volatile content ISO 1269 at 100 C (%)	0.20
Key characteristics	- High glossy surface - High clarity - High mechanical strentgth

Remark: Test method RY-W-QC-E127

PVC PASTE RESIN
Special Rheology PVC Paste Resin

GRADE	PR701
Recommended applications	- Under body coating for automotive - Additive for synthetic leather
K value ISO 1682-2 (-)	71.5
Degree of polymerization (DP) Refer to JIS K6721 (-)	1,270 - 1,340
Brookfield viscosity ASTM D1824 (Poise)	707
Severs viscosity RY-W-QC-E030 (Poise)	34
Volatile content ISO 1269 at 100 C (%)	0.20
Key characteristics	- Exhibit pseudoplastic flow behavior which suitable for spray coating process - Exhibit high flow ability with slow drop rate of plastisol viscosity - No sagging and sliding overtime after apply on ED panel surface - Good mechanical properties - Good viscosity stability

Remark: Test method RY-W-QC-E127

SCG Chemicals PLC.
1 Siam Cement Road, Bangsue, Bangkok 10800, Thailand
Email: pvc_paste@scg.com
www.scgchemicals.com

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Disclaimer:

- The applications specified 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.
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