

PVC PASTE RESIN



INTRODUCTION



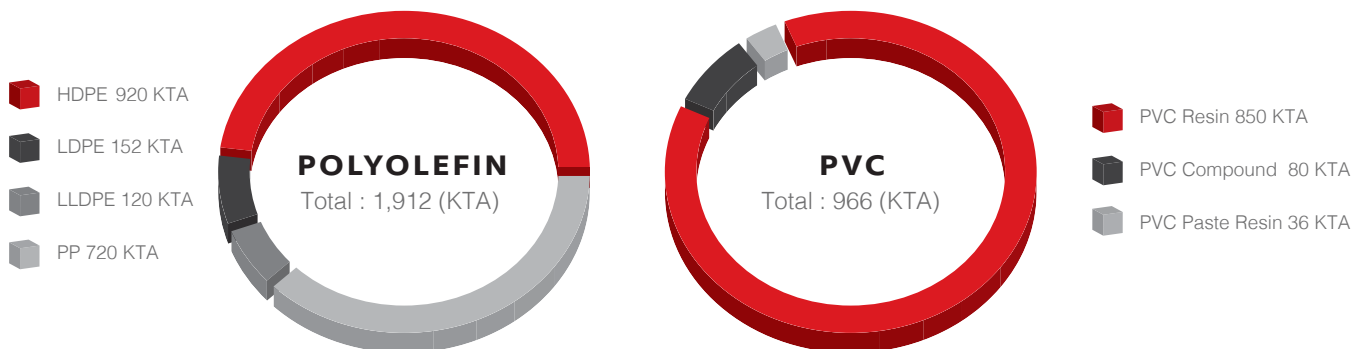
Chemicals Business, SCG is one of the largest integrated petrochemical companies in Thailand and a key industry leader in Asia. We offer a full array of petrochemical products ranging from upstream productions of olefins to downstream productions of three main plastics resins: polyethylene (PE), polypropylene (PP) and polyvinyl chloride (PVC). Widely recognized for superior product quality as well as for world-class operation efficiency, we have joint ventures with a number of the world's leading chemical companies, including DowDuPont™ company, Mitsui Chemicals and Mitsubishi Rayon.

We are committed to developing new high value-added products (HVA) and service solutions that inspire our customers and partners.

PASSION FOR BETTER

OUR PRODUCTION CAPACITY (AS OF 2018)

TOTAL CAPACITY : 2,878 KTA
(PE / PP / PVC)



Rev. Aug 2018 valid until next revision

SCG™ PVC:

PVC PASTE RESIN

SCG's PVC Paste Resin (Emulsion or Dispersion PVC) is a specialty PVC produced by one of our subsidiaries, TPC Paste Resin Co., Ltd., with distinctive *HYBRID TECHNOLOGY*. The resin is mixed with plasticizers and additives, producing plastisol and organosol in the form of a thickened paste which can be used in various industrial fields; surface coating, molding, dipping, or spraying upon materials.

ABOUT HYBRID TECHNOLOGY

HYBRID TECHNOLOGY extracts key properties from two conventional Paste PVC manufacturing processes; it combines fast polymerization and good latex stability of the emulsion process with the excellent particle size control of the micro-suspension technology process. Our PVC Paste Resin, therefore, has low viscosity, high clarity, excellent transparency, high gloss surface, and outstanding tensile strength.

We have also achieved various international standards such as RoHS Directive, REACH⁽¹⁾, the Best Practice Guidelines for PVC; Green Building Council of Australia (GBCA), and EU 10/2011 on Plastic Material and Articles intended to come into contact with food, US FDA 21 CFR 175.300 (Resinous and Polymeric Coatings), GB 4806.10-2016; National Food Safety Standard-Food Contact Paints and Coatings.

Remark: ⁽¹⁾ Certified under registered volume



GENERAL PURPOSE PVC PASTE RESIN

GRADE	PG620	PG680	PG740	PG770
K Value ISO 1628-2 [-]	63	69	74	79
Degree of Polymerization Refer to JIS K6721 [-]	870	1,135	1,465	1,870
Brookfield Viscosity ⁽¹⁾ ASTM D1824 [Poise]	32	34	29	27
Severs Viscosity ⁽²⁾ RY-W-QC-E030 [Poise]	68	80	88	102
Volatile Content ISO 1269 at 110°C [%]	0.23	0.22	0.22	0.22
Key Characteristic	<ul style="list-style-type: none"> - Low fusion temperature - Low viscosity and good viscosity stability - Fast activating foams synthetic leather - Excellent air release 	<ul style="list-style-type: none"> - Foam with a fine and homogenous cell structure - Low viscosity and good viscosity stability - Excellent air release properties - Good heat stability 	<ul style="list-style-type: none"> - Low viscosity and good viscosity stability - Excellent air release - High physical strength - Good heat stability 	<ul style="list-style-type: none"> - Excellent physical strength - Low viscosity and good viscosity stability - Good air release properties - Excellent heat stability
Recommended Application	<ul style="list-style-type: none"> - Synthetic leather (foam layer, adhesive layer) - Wallpaper - Flooring (backing layer for carpet tiles) - Logo - Adhesives, printing ink 	<ul style="list-style-type: none"> - Synthetic leather (foam layer, adhesive layer) - Wallpaper - Flooring (foam layer for cushioned vinyl floor, backing layer for carpet tiles) - Strand & mesh coating - Automotive sealants & mastic 	<ul style="list-style-type: none"> - Synthetic leather (top layer) - Tarpaulin, conveyor belts - Flooring (top layer) - Strand & mesh coating - Automotive sealants & mastic - Toys, tool handle, terminal sleeve - Printing ink 	<ul style="list-style-type: none"> - Synthetic leather (high strength top layer) - High strength tarpaulin - Strand & mesh coating - Flooring (high strength top layer) - Metal & can coating - Automotive sealants & mastic

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

The given values are typical value measured on the product.

Values herein are not to be construed as a product specification.



SYNTHETIC LEATHER



CONVEYOR BELTS



FLOORING



TARPAULIN

SCG™ PVC:

SPECIALTY FOAM PVC PASTE RESIN

GRADE	PF682	PF741
K Value ISO 1628-2 [-]	69	74
Degree of Polymerization Refer to JIS K6721 [-]	1,140	1,470
Brookfield Viscosity⁽¹⁾ ASTM D1824 [Poise]	56	36
Severs Viscosity⁽²⁾ RY-W-QC-E030 [Poise]	93	65
Volatile Content ISO 1269 at 110°C [%]	0.23	0.21
Key Characteristic	<ul style="list-style-type: none"> - Very fine closed cell and homogeneous cell structure - High whiteness foaming - Foam achieved at high expansion levels - Slightly Pseudoplastic rheology; slightly high viscosity at low shear and low viscosity at high shear - Good heat stability 	<ul style="list-style-type: none"> - Good foaming properties and fine cell structure - Provide thicker chemically blown foam at high plasticizer content - Exhibits no flow like dilatancy even at high shear rates - Good viscosity stability - High physical strength
Recommended Application	<ul style="list-style-type: none"> - Synthetic leather (foam layer) - Wallpaper - Flooring (foam layer for cushioned vinyl flooring, yoga mat) 	<ul style="list-style-type: none"> - Synthetic leather (top layer, foam layer) - Automotive sealants & mastic

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

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SCG™ PVC:

HIGH CLARITY PVC PASTE RESIN

GRADE	PC750
K Value ISO 1628-2 [-]	77
Degree of Polymerization Refer to JIS K6721 [-]	1,640
Brookfield Viscosity ⁽¹⁾ ASTM D1824 [Poise]	32
Severs Viscosity ⁽²⁾ RY-W-QC-E030 [Poise]	111
Volatile Content ISO 1269 at 110°C [%]	0.24
Key Characteristic	<ul style="list-style-type: none"> - High glossy surface - High clarity - High physical strength
Recommended Application	<ul style="list-style-type: none"> - Tarpaulin (high gloss surface tarpaulin) - Synthetic leather (high gloss top layer) - Flooring (top layer) - Strand & mesh coating - Toys, logo, transparent terminal sleeves

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

The given values are typical value measured on the product.

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SCG CHEMICALS CO., LTD.

1 Siam Cement Road, Bangsue, Bangkok 10800, Thailand

Tel: +662 586 7223 Fax: +662 586 3676

Email: pvc_paste@scg.com

www.scgchemicals.com



VIETNAM

SCG Plastics Co., Ltd. (Ho Chi Minh Office)
10th Floor, An Phu Plaza 117-119 Ly Chinh
Thang P7, Q3 Ho Chi Minh City, Vietnam
Tel. +84 988 804 672

SCG Plastics Co., Ltd. (Hanoi Office)
19th Floor, VCCI tower, No.9 Dao Duy Anh Street,
Dong Da District, Hanoi city, Vietnam
Tel. +84 988 804 672

TPC Vina Plastic & Chemicals Corporation Co., Ltd.
(Ho Chi Minh Office)
U.091-9th Floor, Habor View Tower
30 Nguyen Hue Street District 1,
Ho Chi Minh City, Vietnam
Tel. +84 838 234 730

MYANMAR

SCG Plastics Co., Ltd.
2nd Floor N. 136/137, Pyay Road, Saw Bea
Gyi Gone, Yangon, Myanmar
Tel. +95 951 946 41

INDONESIA

PT. TPC Indo Plastic and Chemicals
(Surabaya Office)
Lt.5, Unit S 508-509, Kompleks Graha Festival
KAV.3 Mayjend, Yono Soewoyo, Graha Family,
Surabaya, Indonesia, 60226
Tel. +62 319 900 120 56

CHINA

SCG Plastics (China) Co., Ltd. (Shanghai Office)
RM 1012 Huarong Building No.1271 South of
Pudong Road, Pudong New Area, Shanghai,
China, 200122
Tel. +86 182 170 743 69

SCG Plastics (China) Co., Ltd. (Guangzhou Office)
Unit 3207, Block B, China Shine Plaza, No.9
Lin He Xi Road, Tianhe, Guangzhou, China,
510610
Tel. +86 139 030 579 29

AUSTRALIA

SCG Trading Australia Pty Ltd. (Australia Office)
Suite 404, Level 4, 1 Chandos Street,
St. Leonards NSW 2065, Australia
Tel. +61 411 022 231

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.
- No liability can be accepted in respect for 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.