



HOME APPLIANCES



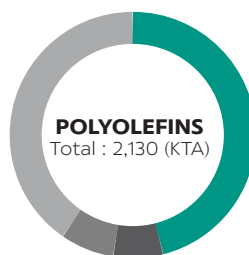
About SCG Chemicals or SCGC

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.

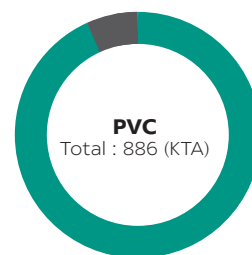
SCGC is committed to conducting business in line with Environmental, Social, and Governance (ESG) and achieving Sustainable Development Goals (SDGs). SCGC is developing new technology and innovation to create high value added products (HVA) and holistic service solutions concerning growing areas such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



- HDPE 980 KTA
- LLDPE 140 KTA
- LDPE 150 KTA
- PP 860 KTA



- PVC 850 KTA
- PVC Paste 36 KTA

ESG Strategic Directions



“INNOVATION THAT’S REAL”





HOME APPLIANCES

For Health and Well-Being

SCGC™ PP resins are designed to deliver innovative material solutions for manufacturers of home appliances by exhibiting the highest qualities of durability, safety, and ability to be easily recycled.

Rapid urbanization and technological advances have led to tremendous transformations in people's lifestyles. Most of us now live increasingly demanding and fast-paced lives that force us to seek comfort and convenience where we can, especially at home.

Home appliances, designed to lighten our load, are becoming more and more robust, durable, and energy-efficient. At the same time, production of home appliances must upkeep heightened standards of health and safety whilst considering environmental issues. In this context, material selection becomes a crucial factor in home appliances production.

At SCGC, we completely understand these intricate demands and changing requirements. Our SCGC™ PP,

high-quality polypropylene resins, are designed to deliver innovative material solutions for manufacturers of home appliances. As an industry leader in petrochemical productions, our efficient and sustainable operations ensure that SCGC™ PP exhibits the highest qualities of durability and safety. In addition, SCGC™ PP is easily recycled thus it is the ideal alternative material for producing high-performance parts for end products that are also aesthetically pleasing and environmentally friendly.

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

Design for Sustainability

3 GOOD HEALTH AND WELL-BEING



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



12 RESPONSIBLE CONSUMPTION AND PRODUCTION





SCGC™ PP: PP Block Copolymer Resins

SCGC™ PP offers the PP block copolymer resins which provide excellent stiffness and impact balance, suitable for developing parts that need to achieve heightened standards of health and well-being such as parts used in washing machines, refrigerators, dish washers, vacuum cleaners, and other small appliances.

GRADE	P440J	P441JU	P640J	P642J	P686J
Melt flow rate [g/10min] ASTM D1238 at 230°C, 2.16 kg	5	5	10	10	10
Flexural modulus [kg/cm ²] ASTM D790	12,500	12,500	12,000	14,000	13,500
Notched Izod Impact at 23°C [J/m] ASTM D256	118	118	98	98	120
Notched Izod Impact at 0°C [J/m] ASTM D256	65	65	59	59	80
Notched Izod Impact at -20°C [J/m] ASTM D256	49	49	39	39	50
Heat deflection temperature [°C] ASTM D648 at 4.6 kg/cm ³	100	100	105	110	115
Regulation standards	RoHS, REACH, FDA UL94 HB	RoHS, REACH, UL94 HB	RoHS, REACH, FDA UL94 HB	RoHS, REACH, UL94 HB	RoHS, REACH, FDA
Key characteristics	General purpose	UV and anti-static agents	General-purpose	UV and anti-static agents	- High strength - High stiffness - Good processability
Recommended applications	- Washing machines - Refrigerators /freezers	- Washing machines - Refrigerators /freezers	- Washing machines - Refrigerators /freezers	- Washing machines - Refrigerators /freezers	Washing machine pulsators



SCGC™ PP: PP Block Copolymer Resins

SCGC™ PP offers the PP block copolymer resins, which provide excellent stiffness and impact balance, suitable for developing parts that need to achieve heightened standards of health and well-being such as parts used in washing machines, refrigerators, dish washers, vacuum cleaners, and other small appliances.

GRADE	P740J	P744J	P840J	P841J	P842J	P945J
Melt flow rate [g/10min] ASTM D1238 at 230°C, 2.16 kg	27	30	43	40	40	65
Flexural modulus [kg/cm ²] ASTM D790	12,500	14,500	12,500	12,000	14,500	14,000
Notched Izod Impact at 23°C [J/m] ASTM D256	78	78	70	70	74	65
Notched Izod Impact at 0°C [J/m] ASTM D256	49	55	39	39	49	35
Notched Izod Impact at -20°C [J/m] ASTM D256	39	41	30	30	30	29
Heat deflection temperature [°C] ASTM D648 at 4.6 kg/cm ³	110	115	110	110	120	110
Regulation standards	RoHS, REACH, FDA UL94 HB	RoHS, REACH, FDA UL94 HB, UL 2157	RoHS, REACH, FDA UL94 HB	RoHS, REACH, UL94 HB	RoHS, REACH, FDA UL94 HB	RoHS, REACH, FDA
Key characteristics	General-purpose	- High flexural modulus - Fast cycle time	High flowability	UV and anti-static agents	- High flexural modulus - Fast cycle time	- High flowability - Fast cycle time
Recommended applications	- Washing machines - Refrigerators /freezers - Dish washers - Air conditioners	- Washing machines - Refrigerators /freezers - Dish washers - Air conditioners	- Washing machines - Refrigerators /freezers - Dish washers - Air conditioners	- Washing machines - Refrigerators /freezers - Dish washers - Air conditioners	- Washing machines - Refrigerators /freezers - Dish washers - Air conditioners	- Washing machines



SCGC™ PP: PP Homopolymer Resins

SCGC™ PP offers the PP homopolymer resins which provide excellent stiffness, suitable for use in home appliance parts and base compound resins.

GRADE	P700J	P702J
Melt flow rate [g/10min] ASTM D1238 at 230°C, 2.16 kg	12	12
Flexural modulus [kg/cm ²] ASTM D790	14,500	17,000
Notched Izod Impact at 23°C [J/m] ASTM D256	37	34
Notched Izod Impact at 0°C [J/m] ASTM D256	20	20
Heat deflection temperature [°C] ASTM D648 at 4.6 kg/cm ³	110	115
Regulation standards	RoHS, REACH, FDA UL94 HB	RoHS, REACH, FDA
Key characteristics	Good rigidity	High rigidity
Recommended applications	- Washing machines - Small appliances - Base resin for compounds	- Washing machines - Small appliances - Base resin for compounds



SCGC™ PP: PP Random Copolymer Resins

SCGC™ PP offers the PP Random Copolymer resins which provide a high degree of transparency.

GRADE	P750J	P851JO
Melt flow rate [g/10min] ASTM D1238 at 230°C, 2.16 kg	12	20
Flexural modulus [kg/cm ²] ASTM D790	12,000	12,500
Notched Izod Impact at 23°C [J/m] ASTM D256	65	60
Notched Izod Impact at 0°C [J/m] ASTM D256	39	39
Heat deflection temperature [°C] ASTM D648 at 4.6 kg/cm ³	90	100
Regulation standards	RoHS, REACH, FDA UL94 HB	RoHS, REACH, FDA UL94 HB
Key characteristics	Transparent	High clarity
Recommended applications	- Washing machines - Refrigerators/freezers	- Washing machines - Refrigerators/freezers



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Our Website



Disclaimer:

- The products can be used only for the 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 the 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 a particular purpose.
- 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, legal, 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 is 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 aspects of safety, recovery, and disposal of products.