

ROTATIONAL MOLDING





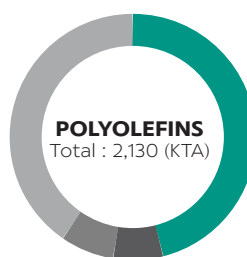
About SCG Chemicals or SCGC

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.

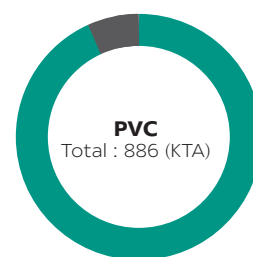
SCGC is committed to conducting business in line with Environmental, Social, and Governance (ESG) and achieving Sustainable Development Goals (SDGs). SCGC is developing new technology and innovation to create high value added products (HVA) and holistic service solutions concerning growing areas such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





ROTATIONAL MOLDING

SCGC has developed innovative resins and compounds for a diverse range of uses, focusing on user's benefit along with environment impact.

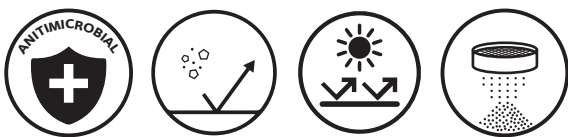
Today, consumer behaviors and trends are changing faster than ever. People are increasingly concerned about health, well-being, and environmental issues. To satisfy these new market demands, SCGC has developed innovative resins and compounds for a diverse range of uses. As the leading manufacturer of linear low-density polyethylene (LLDPE) resins and compounder of materials for rotational molding applications, SCGC offers high quality products with superior fit for today's market.

SCGC's superior production expertise enables our rotational molding compounds to be processed into various applications with exceptional strength and durability. To meet functional requirements, compounds can be formed with anti-microbial or

Anti-static properties. Opacity levels, durability, and UV-resistance can also be fine-tuned. Moreover, compounds come in a variety of colors and different special effects, making sharp aesthetic designs possible.

SCGC's certified food grade compounds contain no toxic heavy metals, suitable for hygienic applications especially household water tanks. Furthermore, these compounds are completely recyclable, and able to be mixed in with post-consumer resins (PCR) from other sources to form new products.

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



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Design for Sustainability





BETTER MATERIAL FOR BETTER WORLD

Reduce Material Consumption Lightweight



S16	
Characteristics	- Excellent stiffness - Excellent impact resistance
Application	Kayaks

Reduce Production Steps Less CO₂ emissions



S15	
Characteristics	- Low shrinkage and warpage - Consistent dimensions - UV stabilized for indoor and semi-outdoor use - Strong adhesion to PU foam
Application	Cooler boxes

Reduce Cycle Time Energy-efficient



M50/M51	
Characteristics	- Excellent ESCR - Good chemical resistance - TÜV-approved - High impact resistance - Low warpage
Application	Fuel tanks

CUSTOMIZED SOLUTIONS FOR YOU

Plain Colors

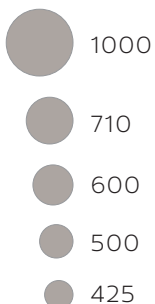


Special Effects

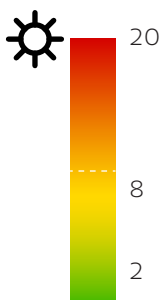


*Actual colors may vary. For more details, please contact a SCGC representative.

Grinding Size (µm)



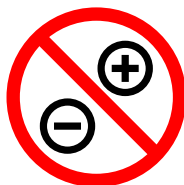
UV Levels



Anti-Microbial



Anti-Static



Post-Consumer Recycled Resin (PCR)



Collaboration from Design to Production



Rotational Molding Products

GRADE	M3204RU	M30	M40	M3804RU	M3804RW	M10	M9001RW	M90	
Color	Natural	Color compound	Color compound	Natural	Natural	Color compound	Natural	Color compound	
Product form	Pellet, powder			Pellet, powder			Pellet, powder		
Density (g/10 cm ³) ASTM D1505 (Non-Anneal)	0.932			0.938			0.939		
Melt index [g/10 min] ASTM D1238 @190°C, 2.16 kg	4			4			3.2		
Flexural modulus MPa/ (PSI) ASTM D790	570 (83,000)			700 (102,000)			740 (107,000)		
Tensile strength at yield MPa/ (PSI) ASTM D638	17 (2,500)			20 (2,900)			21 (3,100)		
Elongation at break [%] ASTM D638	1,100			800			1,100		
ARM impact strength at -40°C [J/mm] ARM Method (5 mm part)	28			27			29		
UV level ASTM G155	2	2	8	2	8	8	20	8/20	
Optimum PIAT* [°C] TPE Method**	180	220	190/220	180	215	215	200	200	
Key characteristics	<ul style="list-style-type: none"> - Excellent impact resistance - Suitable for low temperatures - Good processability - Low warpage - Good dimension tolerance 			<ul style="list-style-type: none"> - High stiffness - Good processability - Good impact resistance 			<ul style="list-style-type: none"> - High stiffness - Excellent impact resistance - Long-lasting durability - Good processability - Meets AS/NZS 4766 requirements 		
Recommended applications	<ul style="list-style-type: none"> - Cooler boxes - Playgrounds - Traffic cones - Road barriers 			<ul style="list-style-type: none"> - General purpose applications - Small water tanks (<5,000L) - Intermediate bulk containers (IBC) - Bins - Containers - Pallets 			<ul style="list-style-type: none"> - Medium to large water tanks (5,000L-22,500L) - Manholes - Kayaks, boats 		

Remarks: * Optimum PIAT (Peak Internal Temperature) may vary depending on color strength and molding conditions.

** Oven temperature 280°C, rotomolded part thickness 5 mm.

Values quoted here are representative of tested specimens only. This data is not intended for specification purposes.

For technical assistance, please contact SCGC representatives.

All products are butene comonomers except for M3504DXP and M50, which are octene comonomers.



M735RU	M735RW	M70	M3504DXP	M50	M51	M72	S15	S16	3981
Natural	Natural	Color compound	Natural	Color compound	Color compound	Color compound	Color compound	Color compound	Color compound
Pellet, powder			Powder	Pallet, powder	Pallet, powder	Pallet, powder	Powder	Pallet, powder	Pallet, powder
0.932			0.935		0.935	0.932	0.932	0.945	0.950
6			4		4	6	4	3.5	4.8
570 (83,000)			630 (92,000)		630 (92,000)	570 (83,000)	540 (78,000)	950 (138,000)	950 (138,000)
17 (2,500)			18 (2,600)		18 (2,600)	17 (2,500)	17 (2,500)	23 (3,300)	23 (3,300)
800			1,100		1,100	800	700	1,100	950
25			28		28	25	-	29	28
4	8	8	8	8	8	4	4	8	8
200	210	210	235	235	205	180	190	220	210
<ul style="list-style-type: none"> - Suitable for intricate parts - Good impact resistance - Excellent surface finishes - Good dimension tolerance 			<ul style="list-style-type: none"> - Excellent environmental stress cracking resistance (ESCR) - Good chemical resistance - TÜV-approved - High impact resistance - Low warpage - Fair processability 		<ul style="list-style-type: none"> - Fast cooking time - Excellent environmental stress cracking resistance (ESCR) - Good chemical resistance - TÜV-approved - High impact resistance - Low warpage 	<ul style="list-style-type: none"> - Fast cooking time - Pinhole free - Excellent surface finishing 	<ul style="list-style-type: none"> - Low shrinkage and warpage - Consistent dimension - UV-stabilized (UV2) for indoor / semi-indoor - Strong adhesion to PU foam (R141, cyclopentane blowing agents) 	<ul style="list-style-type: none"> - Excellent stiffness - High impact resistant 	<ul style="list-style-type: none"> - Excellent stiffness - Excellent impact strength - Fast cycle time and excellent flow - UV8 for outdoor use
<ul style="list-style-type: none"> - Decorative items: Flower pots, small toys - LED lamp covers - Automotive and transportation parts - Industrial parts - Cleaning machines - Air blowers 			<ul style="list-style-type: none"> - Fuel tanks - Intermediate bulk containers (IBC) - Pallets - Chemical tanks - Pesticide tanks - Liquid fertilizer tanks 		<ul style="list-style-type: none"> - Fuel tanks 	<ul style="list-style-type: none"> - Cooler boxes - Decorative items 	<ul style="list-style-type: none"> - Cooler Boxes - Heat insulation products, which have PU foam in the middle layer 	<ul style="list-style-type: none"> - Kayaks, boats - Manholes - Industrial parts - Underground tanks 	<ul style="list-style-type: none"> - Kayaks - Pallets - Underground tanks - Inspection pits



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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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