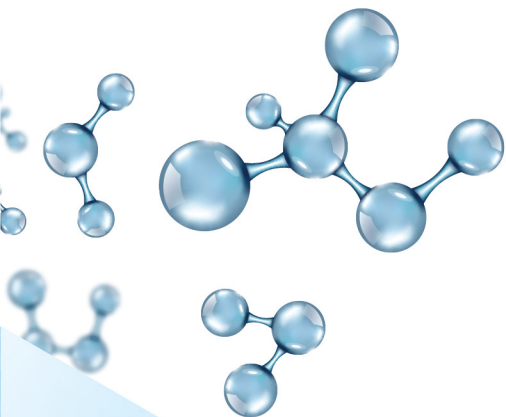




GC
POLYOLS

**BETTER LIVING THROUGH
INNOVATIVE POLYOLS**



GC Polyols Company Limited (GCP), the Joint Venture Company of PTT Global Chemical Public Company Limited (GC), Sanyo Chemical Industries, Ltd. (SCI) and Toyota Tsusho Corporation (TTC), is located at Rayong, Thailand. GCP leverages shareholders' strategic positions in penetrating high value-added performance chemicals to increase competitive advantages in the fast-growing markets. The plant has an annual capacity of 180,000 tons of polyether polyols to serve customers with competitive, high-performance, and high-quality polyols.



**Sanyo
Chemical**



TOYOTA TSUSHO

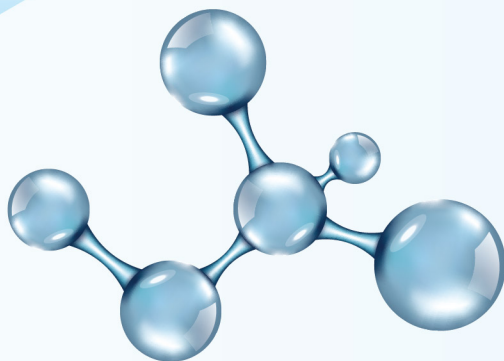
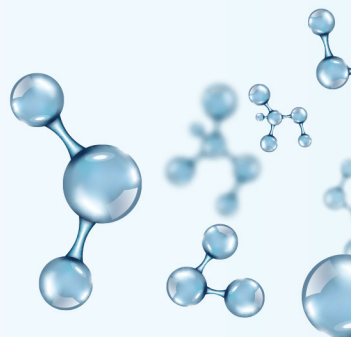
COMPANY PROFILE

By combining innovation with customer centric, GCP aims to supply wide range of polyols to customers in household, construction, automotive, E&E, packaging and footwear industries in the fast-growing Southeast Asia and India markets. With world class R&D team and on-site technical support, we provide long term solution to our customers.

POLYURETHANE LABORATORY AND APPLICATION CENTER

GC Polyols

Polyurethane Laboratory, a world class formulation laboratory, and Polyurethane Application Center will provide range of application testing, formulation, technical service and research development.

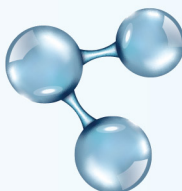
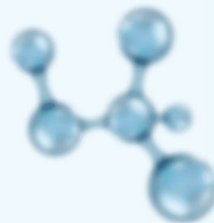


R&D

New formulation development
Product and application development

TECHNICAL SUPPORT

Provide Foaming Techniques
Foaming Troubleshooting
Product Training



HIGH QUALITY PRODUCTS

Quality and consistency are keys to producing our polyols grade. Advanced technologies, integrated manufacturing process, R&D, and quality assurance system ensure high quality polyols.

RIGID BASE

Glycerin Base, Sucrose Base, Sorbitol Base, Amine Base, Pentaerythritol Base



FLEXIBLE SLABSTOCK

Slab Polyols, High Resilience Polyols, Polymeric Polyols



C.A.S.E.

Polyols for Coating, Painting, Adhesive, Sealant, Elastomer



BASE POLYOLS



PU SYSTEM



FLEXIBLE SYSTEM

Automotive seat foam, Sound absorbing, Household



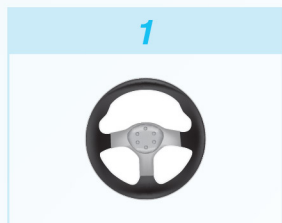
SEMI-RIGID SYSTEM

Instrument Panel, Arm Rest, Handle, Steering Wheel



RIGID SYSTEM

Refrigerator/Freezer, Synthetic Wood, Sandwich Panel, Construction Insulation, Spray Foam, Ice Box



1
STEERING WHEEL
SEMI-RIGID



2
SEAT
FLEXIBLE FOAM



3
HEAD REST
FLEXIBLE FOAM



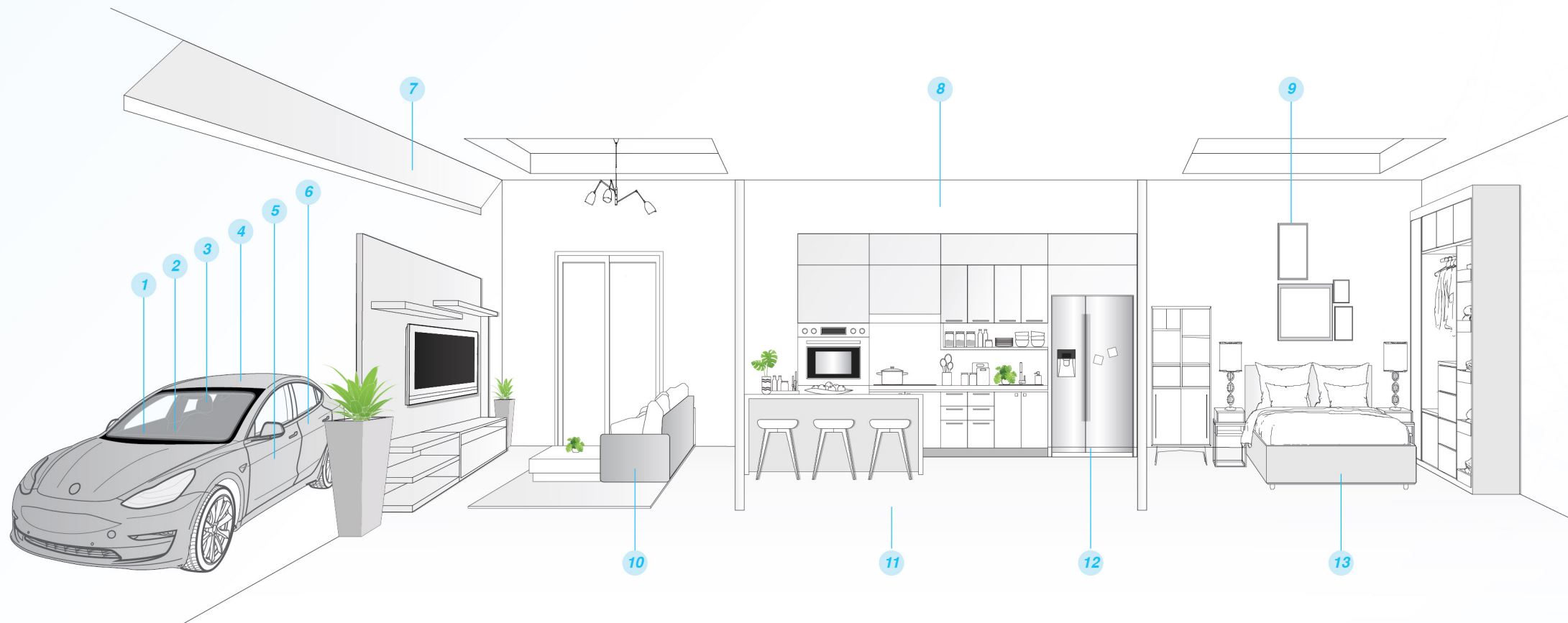
4
ROOF LINERS
RIGID FOAM



5
ARM REST
SEMI-RIGID



6
DOOR PANELS
SEMI-RIGID



7
INSULATION PANEL
RIGID FOAM



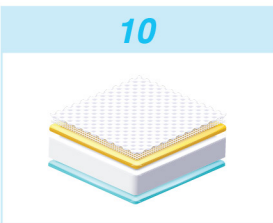
8
PAINT
C.A.S.E.



9
SYNTETIC WOOD
RIGID SYSTEM



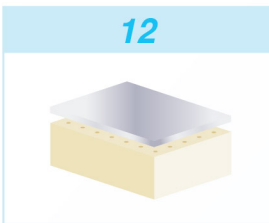
10
SEAT
FLEXIBLE FOAM



11
COATING
C.A.S.E.



12
REFRIGERATOR
RIGID FOAM

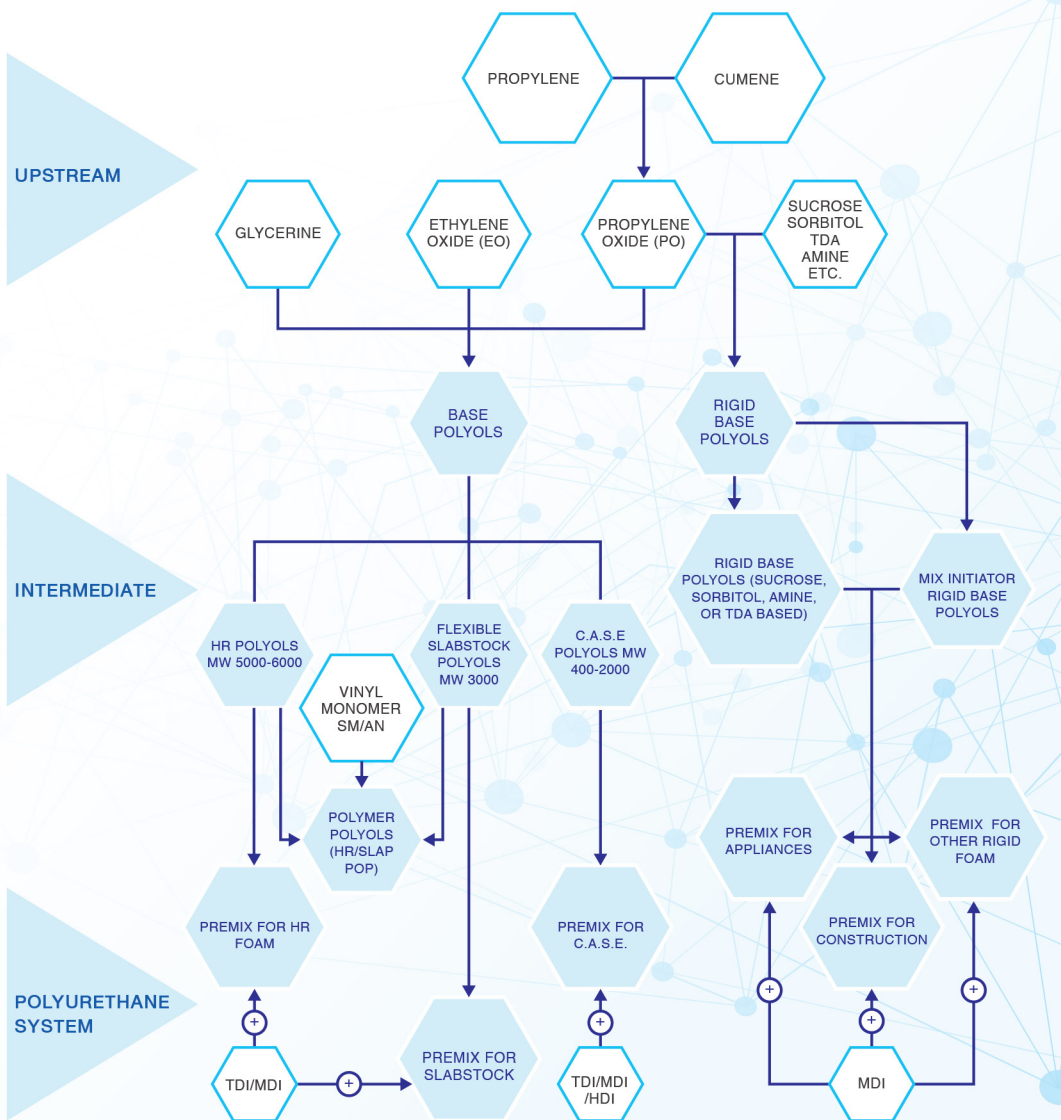


13
MATTRESS
FLEXIBLE FOAM



GC POLYOLS VALUE CHAIN

POLYETHER POLYOLS



GC POLYOLS PRODUCT RANGE



Genix GRADES		PRINCIPAL COMPONENT (PRODUCT FORM)	MOLECULAR WEIGHT	HYDROXYL VALUE	TYPICAL VISCOSITY AT 25°C (mPa.s)	pH	APPLICATIONS
FLEXIBLE	Slab	Genix GS-3000R	3,000	56	480	6.5	This product is a polyol with higher reactivity and a wide tolerance to catalyst levels. Furthermore, It is suitable for the MAX FOAM process, because it causes less scorching.
		Genix GP-3000R			510		This product is a standard polyol, widely used to produce flexible polyurethane foams for general uses. It is usually used in slab-stock foams. The resulting foams have well-balanced physical properties.
	High Resilience (HR)	Genix FA-757	7,000	32	1,100	6.3	This product is a special polyol for better durability foams compared with regular polyols. It is particularly suitable for automobile and motorcycle seat.
		Genix FA-703	5,000	33	905	6.7	This product is polyol for producing high-resilient flexible polyurethane foams with high hardness.
		Genix FA-974	6,000	28	1,155	6.5	This product is a BHT-free special-purpose polyether polyol for producing flexible and semi-flexible polyurethane foams. This product is suitable for cold molding processes and mainly used to produce high-resilient polyurethane foams for both flexible and semi-flexible systems.
		Genix FA-177G	7,000	25	2,250		This product is BHT free which applicable as a main raw material for flexible molded polyurethane foams and flexible Slab-stock foams. Especially this product can be suitable for the cellopener.
		Genix FA-103G	3,400	50	730	6.7	This produce is applicable as a main raw material for flexible molded polyurethane foams and flexible Slab-stock foams. Especially this product can be suitable for the cellopener.
		Genix KC-760G	7,000	32.5	1,140	6.5	This product is high functional polyether polyol for producing a flexible and semi-flexible polyurethane foams. By using this product, it is possible to increase the hardness and ball rebound without deteriorating and maintaining in wet compression set as compared with the foam using conventional PPG.
	Polymer Polyols (POP)	Genix KC-900	-	22	4,800	7.5	This product is a polymer polyol for producing high-resilient flexible polyurethane foams with high hardness.
		Genix FS-7301	-	31	5,400	6.8	This product is a polymer polyol for producing slab-stock flexible polyurethane foams. It has an ability to produce wide range of hardness, when it is mixed in different proportions with other polyether polyols.

GC POLYOLS PRODUCT RANGE



C.A.S.E.

Genix GRADES	PRINCIPAL COMPONENT (PRODUCT FORM)	MOLECULAR WEIGHT	HYDROXYL VALUE	TYPICAL VISCOSITY AT 25°C (mPa.s)	pH	APPLICATIONS
Genix GA-5000	Polyoxypropylene triol (Liquid)	5,000	33	900	6.3	This product is a standard polyether polyol for CASE applications. This product provides high elongation, good tensile strength and hardness.
Genix PA-2000	Polyoxypropylene diol (Liquid)	2,000	56	325	6.1	These products are a standard polyol, used most widely to produce C.A.S.E application. They are mainly used as raw materials for polyurethane resins. The resulting polyurethane has well-elongation properties with produces soft and stretchable PU foams also.
Genix PK-1000		1,000	112	150	6.0	
Genix PK-400G	Polyoxyalkylene triol (Liquid)	400	275	70	6.5	This product is BHT-free which mainly used as a raw material for polyurethane resins in the application of C.A.S.E.
Genix GP-600G		600	280	280	6.3	This product is BHT and applicable as a main raw material for rigid polyurethane foams and flexible Slab-stock foams.

RIGID

Genix GRADES	PRINCIPAL COMPONENT (PRODUCT FORM)	INITIATOR	HYDROXYL VALUE	TYPICAL VISCOSITY AT 25°C (mPa.s)	pH	APPLICATIONS
Genix RP-410A	Modified sucrose-based polyoxypropylene polyol (Liquid)	Sucrose	420	31,500	10.0	This product is applicable as the main raw material for rigid polyurethane foams used as heat insulating materials. The excellent dimensional stability can be produced.
Genix HS-209			450	6,000	10.0	This product is a standard polyether polyol for rigid polyurethane foams with low viscosity. The resulting foams have well-balanced mechanical properties.
Genix SP-750	Modified sorbitol-based polyoxypropylene polyol (Liquid)	Sorbitol	490	16,000 (at 30°C)	6.3	This product is a multifunctional polyol recommended for producing high and low-density rigid polyurethane foams. It effectively achieves open-cell structure and can be used to produce foams with improved elasticity and less shrinkage.
Genix HM-551	Aromatic amine-based polyol	Toluylenediamine	400	22,500	10.0	This product is an aromatic amine-based polyol and suitable for rigid polyurethane foams. This high reactive polyol is easily formulated to give foams with high dimensional stabilities, high compressive strength, and high closed-cell content.



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