



## **Proud to Represent** Over 30 Years of Plastic **Distribution & Technical Resources**

## *800-920-8033* **GP-Materials.com**

## **PARTNER HIGHLIGHT**

# samyang





Polycarbonate (PC) polymerization unit

Global HQ: Seoul, South Korea

Samyang Kasei, established in 1989, is the first polycarbonate producer in Korea and has an annual production capacity of 120,000 tons and is striving to improve its corporate value through price, quality and competitiveness.





TRIREX® polycarbonate resins offer superior transparency, mechanical properties, good dimensional stability and high electrical performance, which allows it to be widely used for electrical, electronic, appliance, automotive and optical industries.

## Product Line-Up

TRIREX® PC, PC Compound, Si-PC, Si-PC Compound, HT-PC TRILOY® Alloy compounds PC/ABS, PC/PBT, PC/PET, PC/PCTG

## TRIREX® IR GRADE

Injection molding for general purpose uses Good releasing Office equipment, Food container, etc.

3017IR - High flow

3022IR - Low viscosity

3022IR (02) - Blue tinted color

3022IR (HD) / 3025IR (03) - Water White color

## TRIREX® U GRADE

Specialty suitable for weathering resistance. (UV stabilized)

3025U (H), 3027U (H)

- Extrusion Grade/ Solid Sheet 3027U (H2)
- -3027U (M1), 3027U (M3)
- Multiwall or Corrugated Sheet 3022U / 3020U / 3025U / 3027U / 3030U
- General U-Grade
- Lamp cover, Outdoor infrastructure, etc.



- Grade Added To the Colorant and Hetero-Material
- U Grade Utilized for Food container

#### A Grade

- Grade Pelletizing the Base Granule
- · I Grade for the Use of Compounding

A Grade Used for the H/Lamp and Lens

#### **U** Grade

- Grade Additioned to UV Stabilizer
- L1 Grade Used for the Cover of Electronic Lamps and Sheet

### B Grade

- · A Grade Used off the Bottle
- I Grade
- Grade Added to Only the Colorant

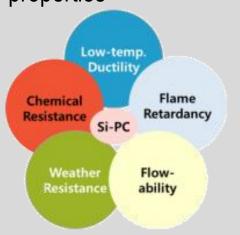
\*PC General grade section •A: Heat stabilizers Heat stabilizers + separating materials • iR: Heat stabilizers + separating materials + stain •Hf: High flow •U: UV stable grade •L1: Lens grade

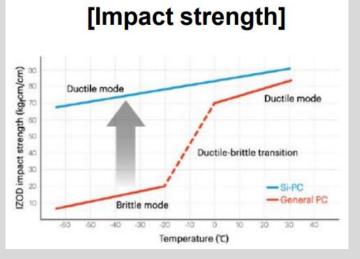


## TRIREX S (Si-PC Polycarbonate-Polysiloxane Copolymer)

Si-PC have low-temp. ductility up to -60°C with fair transparency, high-impact, flame-resistance, and chemical resistance

properties























Housing

Transparent

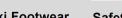










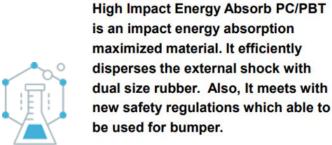


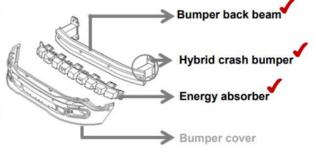
Police Shield Washing Machine Hard Shell Luggage Scanner

## samyang

## TRILOY® Alloy compounds PC/ABS, PC/PBT, PC/PET, PC/PCTG

TRILOY is the PC based compound resin, designed to meet customer's challenging application requirements. TRILOY has good impact resistance, heat resistance, and excellent processability, which makes it suitable for precision parts.





Center Fascia

Rear Bumper Beam

Console

Door Handle

PC/PBT, PC/PET: Superior chemical resistance



TRILOY

PC/ABS Good Impact Resistance

Normal grade	200	~ 70
High impact	210	~ 80
High heat / impact	215	~ 90
High heat / low temp. impact	220	~100
Extra high heat	230	~110
	200PG	~ 70
Chrome plating	210PG	~ 85
	215PG	~ 95
	250	~ 95
Chemical resistance	251	~100

With the development of medical technology, life expectancy is increasing, and as the aging population increases, the demand for medical devices and medical supplies is also increasing. Medical polymer materials can be classified into two broad categories depending on the field, which can be divided into the field of medical equipment and packaging materials, and the field of biomaterials. In the case of medical equipment and packaging materials, chemical and thermal treatments are performed for sterilization. Therefore, it is necessary to develop materials with excellent chemical resistance and heat stability, and in the case of products that can contact the human body or

blood, human suitability certification is required.

Medical polycarbonate

materials







**HDT** 

GENERAL POLYMERS
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