



Technical Data Sheet

Product Name
SCGC™ HDPE

Product Type
High Density Polyethylene

Product Grade
H6105JU

Product Description

SCGC™ HDPE H6105JU is high stiffness and balanced impact property of high density polyethylene resin. This grade is added UV resistance suitable for industrial product produced from injection molding process.

Typical Application

- Large container, garbage bin, Fruit basket
- Pallet, Crate
- Industrial parts
- Outdoor application

Product Characteristics

- Good stiffness, impact resistance
- Good processibility
- UV resistance

International Compliance

- Directive 94/62/EC (Packaging and Packing waste)
- RoHS Directive 2011/65/EU (RoHS)
- REACH Regulation (EC) No.1907/2006

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190°C, 2.16 kg	5	g/10 min
Density	ASTM D 1505	0.964	g/cm ³
Melting Point	ASTM D 2117	133	°C
Vicat Softening Point	ASTM D 1525	127	°C
Heat Deflection Temperature (HDT)	ASTM D 648 @ 4.6 kg/cm ²	75	°C
Tensile Strength at Yield	ASTM D 638	250	kg/cm ²
Tensile Strength at Break	ASTM D 638	200	kg/cm ²
Flexural Modulus	ASTM D 790	15,500	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23°C	32	J/m
Hardness	ASTM D 2240	66	Shore D
Flexural Modulus	ASTM D 790 (Injection specimen)	10,400	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23°C (Injection specimen)	72	J/m

Note:

- Conversion factor for changing unit from kg/cm² to MPa is divided by 10.20
- The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.

Thai Polyethylene Co., Ltd.





Technical Data Sheet	Product Name SCGC™ HDPE
Product Type High Density Polyethylene	Product Grade H6105JU

Processing Guidelines

The actual processing conditions depend on each machine type, product size, mold design and environment.

Recommended processing conditions:

Melt temperature: 200-250 °C Mold temperature: 20-60 °C Injection speed: Fast Screw speed 40-70 rpm
Pressure: Injection 30-70%, Packing and Holding 30-50%, Back 10% of Max. Pressure

Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products contact your SCG Chemicals technical services at the address as specified below.

Product Available Form

- Pellet

Product Packaging

- 25 kg loose bag
- 25 kg stretch wrap palletized
- 750 kg big bag
- Sea bulk container

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited.
- Product(s) should be stored in dry and dust free location at temperature below 50 °C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.
- Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

Thai Polyethylene Co., Ltd.

