



# Technical Data Sheet

Product Name  
**SCGC™ LDPE**

Product Type  
**Autoclave LDPE for Extrusion Coating/Lamination**

Product Grade  
**D477C**

## Product Description

SCGC LDPE D477C is an autoclave low density polyethylene grade for extrusion coating/lamination with good stiffness and neck in performance.

## Typical Application

- For general use in extrusion lamination and extrusion coating
- For coating on different substrates; Aluminum foil, Nylon, PET, OPP, Paper, etc.
- Food and non-food packaging

## Product Characteristics

- Good neck-in performance
- High stiffness
- High scratch resistance
- Good processability, thickness control and edge stability

## International Compliance

- U.S FDA 21 CFR 177.1520
- Regulation (EU) No.10/2011
- Regulation (EC) 2023/2006 (GMP)
- Packaging and Packaging waste Directive 94/62/EC

**Note:** Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact package

## Physical Properties

Properties	Test Method	Typical Value	Unit
<b>Resin Properties</b>			
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	4.0	g/ 10 min
Density	ASTM D 1505	0.924	g/cm <sup>3</sup>
Melting Point	ASTM D 2117	112	°C
Vicat Softening Point	ASTM D 1525	90	°C

**Note:** - The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.  
- Coating property obtained by SCGC internal laboratory coating with melt temperature 315°C, Die width 350 mm, Die lip 1.5 mm

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### Processing Guidelines

SCGC LDPE D477C is recommended to apply primer or corona treatment on substrate before coating for better adhesion. The actual processing condition depends on each machine type, size, and thickness. Generally, melt temperature should be around 300-330°C. Minimum air gap 150 mm is recommended.

### 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
- Seabulk 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be sloped.

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