

**Product Description**

EL-LENE™ D477C is an Autoclave LDPE grade for extrusion coating/lamination.

Typical Application

- General extrusion coating, extrusion lamination, co-extrusion coating
- For coating on different substrates; Aluminium foil, paper, tarpaulin and flexible films(PET, OPP, Nylon,.)
- Food and non-food packaging

Product Characteristics

- Excellent neck-in
- Good processibility
- Good stiffness
- Low film surface friction or COF
- Good thickness control and edge stability
- Good seal strength and hot tack strength

International Standard 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
Resin Properties			
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	4.0	g/10 min
Density	ASTM D 1505	0.922	g/cm ³
Melting Point	ASTM D 2117	112	°C
Vicat Softening Point	ASTM D 1525	90	°C
Coating Properties			
Neck-in (315 °C) (Constant output at 50 rpm)	TPE Method	6	cm

Processing Guidelines

For extrusion coating of D477C, it is recommended to apply primer or corona treatment on substrate before coating for better adhesion.

The actual extrusion condition depends on the type of machine, size and thickness.

Generally, melt temperature 300-330 °C. should be obtained. Minimum recommended air gap is 150 mm.

Product Technical Assistance

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

Product Available Form

- Pellet

Product Packaging

- 25 kg loose bag
- Big bag with specified weight

SCG Plastics Company Limited / SCG Performance Chemicals Company Limited





Technical Datasheet

Autoclave Low Density Polyethylene for extrusion coating

EL-Lene™

D477C

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.

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