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
Resin Properties			
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	4.0	g/ 10 min
Density	ASTM D 1505	0.924	g/cm^3
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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Manufacturer website: https://www.scgchemicals.com/en

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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 slopped.

Safety

- The product is not classified as a hazardous material.
- Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your SCG Chemicals technical services.

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Recycling

- The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.
- Please see our Material Safety Datasheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your SCG Chemicals technical services.

Related Documents

- The latest version of this document will be available at our website, www.scgchemicals.com, or can be obtained from the SCG Chemicals technical services.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
    - Safety Data Sheet.
    - Declaration of Compliance.

Disclaimer

- The Applications specified herein is for reference only.
- It is customer's responsibilities to inspect and test the product for suitability of the customer's own use and purpose. The customer is responsible for appropriate, safe, legal use, processing and handling of the product.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. We however do not assume any liability whatsoever for the accuracy and completeness of the information contained herein.
- We make no warranties which extend beyond the description herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- No liability can be accepted in respect of the use of the product in conjunction with other materials. The information contained herein relates exclusively to the product when it is not used in conjunction with any third party's materials

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