

Product Description

EL-LENE LD2305F is a LDPE grade for zip bags and general purpose with Slip and Antiblocking agent.

Typical Applications

- Zip bags or zip application
- General purpose film such as food packaging

Product Characteristics

- Excellent clarity and gloss
- Good zip formation
- Good openability
- Food contact applicable (Complies with U.S FDA 21 CFR 177.1520)
- Slip content 1000 ppm
- Antiblocking content 500 ppm

Physical properties

| Property | Test Method | Value | Unit |
|----------------------------|-------------------------------|------------------------|--------------------|
| Resin Properties | | | |
| Melt Flow Rate | ASTM D 1238 @ 190 °C, 2.16 kg | 3.50 | g/10 min |
| Density | ASTM D 1505 | 0.923 | g/cm ³ |
| Melting Point | ASTM D 2117 | 110 | °C |
| Vicat Softening Point | ASTM D 1525 | 92 | °C |
| Brittleness Temperature | ASTM D 746 | < - 70 | °C |
| Film Properties | | | |
| Tensile Strength at Yield | ASTM D 882 | MD : -*, TD : 95* | kg/cm ² |
| Tensile Strength at Break | ASTM D 882 | MD : 240*, TD : 190* | kg/cm ² |
| Tensile Modulus, 2% Secant | ASTM D 882 | MD : 2600*, TD : 2500* | kg/cm ² |
| Elongation at Break | ASTM D 882 | MD : 300*, TD : 550* | % |
| Elmendorf Tear Strength | ASTM D 1922 | MD : 400*, TD : 275* | g |
| Dart Impact Strength | ASTM D 1709 | 78* | g |
| Haze | ASTM D 1003 | 5* | % |
| Gloss | ASTM D 2457 | 78* | % |

(*) Typical values obtained from film produced on a pilot line at TPE, 38 micron (BUR 2:1), MD: Machine direction, TD: Transverse Direction

Note : Conversion factor for changing unit from kg/cm² to MPa is divided by 10.2

Processing Techniques

The actual extrusion condition depends on type of using machine, size and film thickness of product required.

Generally, melt temperature should be 140-170 °C, BUR 2 to 3 times of die diameter 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 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

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**Storage**

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited/ Thai Polypropylene 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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