

## PRODUCT DATA SHEET



| LDPE                                                    | LDPE | LDPE | LDPE | LDPE | LDPE | LDPE                                                                                                                                                                                                             | LDPE | LDPE | LDPE                                                                                                                                                                                                                                         | LDPE |
|---------------------------------------------------------|------|------|------|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <div>Low Density Polyethylene</div> <div>LF2207GX</div> |      |      |      |      |      | <div>Technical support:</div> <div>Sasol Chemicals</div> <div>North America LLC</div> <div>12120 Wickchester Lane</div> <div>Houston, TX 77079</div> <div>Email:</div> <div>PolymersTechnical@us.sasol.com</div> |      |      | <div>Sales office:</div> <div>Sasol Chemicals</div> <div>North America LLC</div> <div>12120 Wickchester Lane</div> <div>Houston, TX 77079</div> <div>Telephone: (281) 588 3000</div> <div>Email:</div> <div>PolymersSales@us.sasol.com</div> |      |

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**Melt Index: 0.75 g/10min**

**Density: 0.922 g/cm<sup>3</sup>**

### Features

- Tubular Resin
- Good film opticals
- Good mechanical properties
- Wide processing range

### Applications

- Shrink film
- Form Fill and Seal Packaging
- Construction Film
- Blending with LLDPE

### Additives

- High performance, High purity Antiblock (2000 ppm)
- Antioxidant

| Typical properties (not to be construed as specifications) |                                              | Value (SI)              | Value (English)         | Method       |
|------------------------------------------------------------|----------------------------------------------|-------------------------|-------------------------|--------------|
| Resin Properties                                           | Melt Index (190°C/2.16kg)                    | 0.75 g/10 min           | 0.75 g/10 min           | ASTM D1238   |
|                                                            | Density                                      | 0.926 g/cm <sup>3</sup> | 0.926 g/cm <sup>3</sup> | ASTM D1505   |
|                                                            | Base Density <sup>(1)</sup>                  | 0.922 g/cm <sup>3</sup> | 0.922 g/cm <sup>3</sup> | Sasol Method |
| Film Properties                                            | Tensile strength at yield MD                 | 1600 psi                | 11 MPa                  | ASTM D882    |
|                                                            | Tensile strength at yield TD                 | 1700 psi                | 12 MPa                  | ASTM D882    |
|                                                            | Tensile strength at break MD                 | 3700 psi                | 26 MPa                  | ASTM D882    |
|                                                            | Tensile strength at break TD                 | 3100 psi                | 21 MPa                  | ASTM D882    |
|                                                            | Elongation MD                                | 140 %                   | 140 %                   | ASTM D882    |
|                                                            | Elongation TD                                | 530 %                   | 530 %                   | ASTM D882    |
|                                                            | 1% Secant Modulus MD                         | 34000 psi               | 230 MPa                 | ASTM D882    |
|                                                            | 1% Secant Modulus TD                         | 40000 psi               | 280 MPa                 | ASTM D882    |
|                                                            | Elmendorf Tear MD                            | 510 g                   | 510 g                   | ASTM D1922   |
|                                                            | Elmendorf Tear TD                            | 150 g                   | 150 g                   | ASTM D1922   |
|                                                            | Dart Drop Impact Strength (F <sub>50</sub> ) | 160 g                   | 160 g                   | ASTM D1709A  |
|                                                            | Haze                                         | 9 %                     | 9 %                     | ASTM D1003   |
|                                                            | Gloss (45°)                                  | 58                      | 58                      | ASTM D2457   |

(1) Base density is calculated assuming that the product doesn't contain any antiblock additive.

The above values were measured on a 2 mil (50.8 µm) film produced on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 BUR using a die gap of 30 mil (0.8mm) die gap.



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### Handling

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal protection to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapours. Please consult the material safety data sheet (SDS) for more detailed information.

### Storage

As ultraviolet light may cause a change in the material, all resins should be protected from direct sunlight during storage. If stored in cool (<77°F (25°C)), dry area with low ambient light levels, polyolefin resins are expected to maintain their original material and processing properties for at least 12 months.

### Combustibility

Polyethylene resins will burn when supplied adequate heat and oxygen. They should be handled and stored away from contact with direct flames and/or other ignition sources. In burning, polyethylene resins contribute high heat and may generate a dense black smoke. Fires can be extinguished by conventional means with water and water mist preferred. In enclosed areas, fire fighters should be provided with self contained breathing apparatus.

### Conveying

Conveying equipment should be designed to prevent accumulation of fines and dust particles that are contained in all polyethylene resins. The fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used:

- be equipped with adequate filters
- is operated and maintained in such a manner to ensure no leaks develop
- that adequate grounding exists at all times

It is further recommended that good housekeeping is practiced throughout the facility.