

# DOWLEX™ SC 2107GS

Linear Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

DOWLEX™ SC 2107GS is ultra low gel ethylene octene copolymer. Films made from DOWLEX SC 2107GS Polyethylene Resin is processable at high line speeds, exhibits excellent stretchability, outstanding tear and impact resistance, as well as exceptional optical properties.

Main Characteristics:

Linear Low Density Polyethylene

Applications:

Industrial film

Hygiene & Medical film

Complies with:

U.S. FDA FCN 424

EU, No 10/2011

Consult the regulations for complete details.

| General Information   |                   |                   |                 |
|---|-------------------|-------------------|-----------------|
| Agency Ratings  | FDA FCN 424       |                   |                 |
|   | Europe No 10/2011 |                   |                 |
| Forms   | Particle          |                   |                 |
| Physical  | Nominal Value     | Unit              | Test Method     |
| Specific Gravity  | 0.917             | g/cm <sup>3</sup> | ASTM D792       |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                           | 2.3               | g/10 min          | ISO 1133        |
| Films   | Nominal Value     | Unit              | Test Method     |
| Film Thickness - Tested   | 23                | µm                |                 |
| Tensile Strength <sup>1</sup>                                       |                   |                   | ASTM D882       |
| MD: Yield, 23 µm  | 6.30              | MPa               | ASTM D882       |
| TD: Yield, 23 µm  | 5.90              | MPa               | ASTM D882       |
| MD: Break, 23 µm  | 43.0              | MPa               | ASTM D882       |
| TD: Break, 23 µm  | 28.0              | MPa               | ASTM D882       |
| Tensile Elongation <sup>2</sup>                                     |                   |                   | ASTM D882       |
| MD: Break, 23 µm  | 470               | %                 | ASTM D882       |
| TD: Break, 23 µm  | 900               | %                 | ASTM D882       |
| Dart Drop Impact <sup>3</sup> (23 µm)                               | 200               | g                 | ASTM D1709A     |
| Elmendorf Tear Strength <sup>4</sup>                                |                   |                   | ASTM D1922      |
| MD : 23 µm  | 410               | g                 | ASTM D1922      |
| TD : 23 µm  | 540               | g                 | ASTM D1922      |
| Film tensile properties-maximum stretch to penetration <sup>5</sup> | 130               |                   | Internal method |
| Film Tensile Properties-Maximum Elongation <sup>6</sup>             | 240               | %                 | Internal method |
| Optical   | Nominal Value     | Unit              | Test Method     |

| Gloss <sup>7</sup> (45°, 23.0 μm) | 92            |      | ASTM D2457 |
|-----------------------------------|---------------|------|------------|
| Haze <sup>8</sup> (23.0 μm)       | 0.70          | %    | ASTM D1003 |
| Extrusion                         | Nominal Value | Unit |            |
| Melt Temperature                  | 220 - 280     | °C   |            |
| Extrusion instructions            |               |      |            |

铸造薄膜的制造条件:  
熔体温度:220-280°C  
冷却辊温度:20-60°C  
脱离速度:150-450 米/分  
建议的厚度范围:10-60 μm

| NOTE |   |
|------|---|
| 1.   | Cast film, 250 m/min; Cooling roller 25 c.  |
| 2.   | Cast film, 250 m/min; Cooling roller 25 c.  |
| 3.   | Cast film, 250 m/min; Cooling roller 25 c.  |
| 4.   | Method B; Cast film, 250 m/min; Cooling roller 25 c.  |
| 5.   | Cast film, 250 m/min; Cooling roller 25°C; Measured on test bench; Maximum prestretching before penetration of sharp probe. |
| 6.   | Cast film, 250 m/min, cooling roller 25°C; Measured on the test bench.  |
| 7.   | Cast film, 250 m/min; Cooling roller 25 c.  |
| 8.   | Cast film, 250 m/min; Cooling roller 25 c.  |

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