

# EL-Lene™ L2009F

Linear Low Density Polyethylene

SCG Chemicals Co., Ltd.

## Message:

EL-LENE L2009F is a butene LLDPE resin with Slip and Antiblocking agent.

| General Information                                                                  |                           |                   |             |
|--------------------------------------------------------------------------------------|---------------------------|-------------------|-------------|
| Additive                                                                             | Antiblock (700 ppm)       |                   |             |
|                                                                                      | Slip (1000 ppm)           |                   |             |
| Features                                                                             | Antiblocking              |                   |             |
|                                                                                      | Butene Comonomer          |                   |             |
|                                                                                      | Fast Molding Cycle        |                   |             |
|                                                                                      | Food Contact Acceptable   |                   |             |
|                                                                                      | Opticals                  |                   |             |
|                                                                                      | Slip                      |                   |             |
| Uses                                                                                 | Agricultural Applications |                   |             |
|                                                                                      | Blending                  |                   |             |
|                                                                                      | Film                      |                   |             |
|                                                                                      | Heavy-duty Bags           |                   |             |
|                                                                                      | Industrial Applications   |                   |             |
| Agency Ratings                                                                       | FDA 21 CFR 177.1520       |                   |             |
| Forms                                                                                | Pellets                   |                   |             |
| Processing Method                                                                    | Blown Film                |                   |             |
| Physical                                                                             | Nominal Value             | Unit              | Test Method |
| Density                                                                              | 0.919                     | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                                            | 1.0                       | g/10 min          | ASTM D1238  |
| Environmental Stress-Cracking Resistance (50°C, 25% Igepal, Compression Molded, F50) | > 1000                    | hr                | ASTM D1693B |
| Films                                                                                | Nominal Value             | Unit              | Test Method |
| Secant Modulus                                                                       |                           |                   | ASTM D882   |
| 2% Secant, MD : 38 µm                                                                | 260                       | MPa               |             |
| 2% Secant, TD : 38 µm                                                                | 272                       | MPa               |             |
| Tensile Strength                                                                     |                           |                   | ASTM D882   |
| MD : Yield,38 µm                                                                     | 11.8                      | MPa               |             |
| TD : Yield,38 µm                                                                     | 13.7                      | MPa               |             |
| MD : Break, 38 µm                                                                    | 37.3                      | MPa               |             |

| TD : Break, 38 μm           | 34.3          | MPa  |             |
|-----------------------------|---------------|------|-------------|
| Tensile Elongation          |               |      | ASTM D882   |
| MD : Break, 38 μm           | 1000          | %    |             |
| TD : Break, 38 μm           | 1200          | %    |             |
| Dart Drop Impact (38 μm)    | 130           | g    | ASTM D1709  |
| Elmendorf Tear Strength     |               |      | ASTM D1922  |
| MD : 38 μm                  | 150           | g    |             |
| TD : 38 μm                  | 370           | g    |             |
| Thermal                     | Nominal Value | Unit | Test Method |
| Brittleness Temperature     | < -70.0       | °C   | ASTM D746   |
| Vicat Softening Temperature | 102           | °C   | ASTM D1525  |
| Melting Temperature         | 122           | °C   | ASTM D2117  |
| Optical                     | Nominal Value | Unit | Test Method |
| Gloss (38.0 μm)             | 52            |      | ASTM D2457  |
| Haze (38.0 μm)              | 16            | %    | ASTM D1003  |
| Extrusion                   | Nominal Value | Unit |             |
| Melt Temperature            | 180 to 200    | °C   |             |

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