

# DOWLEX™ 2645.11G

Polyethylene Resin

The Dow Chemical Company

## Message:

DOWLEX™ Polyethylene Resin is designed for the production of a wide variety of film applications. Films made from this resin exhibit a combination of good toughness and tear resistance.

Complies with:

U.S. FDA, FCN 741

EU, No 10/2011

Consult the regulations for complete details.

| General Information                       |                                                          |                   |                 |
|-------------------------------------------|----------------------------------------------------------|-------------------|-----------------|
| Additive                                  | Anti-caking agent (3000 ppm)<br>Sliding agent (1200 ppm) |                   |                 |
| Agency Ratings                            | FDA FCN 741<br>Europe No 10/2011                         |                   |                 |
| Forms                                     | Particle                                                 |                   |                 |
| Processing Method                         | Blow film                                                |                   |                 |
| Physical                                  | Nominal Value                                            | Unit              | Test Method     |
| Specific Gravity                          | 0.921                                                    | g/cm <sup>3</sup> | ASTM D792       |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.90                                                     | g/10 min          | ASTM D1238      |
| Films                                     | Nominal Value                                            | Unit              | Test Method     |
| Film Thickness - Tested                   | 51                                                       | µm                |                 |
| Film Puncture Resistance (51 µm)          | 6.62                                                     | J/cm <sup>3</sup> | Internal method |
| secant modulus                            |                                                          |                   | ASTM D882       |
| 2% secant, MD: 51 µm                      | 168                                                      | MPa               | ASTM D882       |
| 2% secant, TD: 51 µm                      | 238                                                      | MPa               | ASTM D882       |
| Tensile Strength                          |                                                          |                   | ASTM D882       |
| MD: Yield, 51 µm                          | 14.2                                                     | MPa               | ASTM D882       |
| TD: Yield, 51 µm                          | 14.6                                                     | MPa               | ASTM D882       |
| MD: Fracture, 51 µm                       | 48.8                                                     | MPa               | ASTM D882       |
| TD: Fracture, 51 µm                       | 39.2                                                     | MPa               | ASTM D882       |
| Tensile Elongation                        |                                                          |                   | ASTM D882       |
| MD: Fracture, 51 µm                       | 660                                                      | %                 | ASTM D882       |
| TD: Fracture, 51 µm                       | 740                                                      | %                 | ASTM D882       |
| Dart Drop Impact (51 µm)                  | 300                                                      | g                 | ASTM D1709A     |
| Elmendorf Tear Strength                   |                                                          |                   | ASTM D1922      |
| MD : 51 µm                                | 720                                                      | g                 | ASTM D1922      |
| TD : 51 µm                                | 1000                                                     | g                 | ASTM D1922      |

| Thermal                     | Nominal Value | Unit | Test Method     |
|-----------------------------|---------------|------|-----------------|
| Vicat Softening Temperature | 107           | °C   | ASTM D1525      |
| Melting Temperature (DSC)   | 120           | °C   | Internal method |
| Optical                     | Nominal Value | Unit | Test Method     |
| Gloss (45°, 50.8 µm)        | 56            |      | ASTM D2457      |
| Haze (50.8 µm)              | 14            | %    | ASTM D1003      |
| Extrusion instructions      |               |      |                 |

吹塑薄膜的制造条件:

螺杆尺寸:2.5 英寸 (63.5 mm) 30:1 L/D

螺杆类型:DSBII

模具间隙:70 密尔 (1.8 mm)

输出:模具周长的 10 磅/小时/英寸

模具直径:6 英寸

放大比:2.5 : 1

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