

# DOWLEX™ TG 2085B

Polyethylene Resin

The Dow Chemical Company

## Message:

DOWLEX™ TG 2085B is a Linear Low Density Polyethylene, copolymer octene, produced in the Solution Process. This resin presents an excellent balance of optical and mechanical properties. It offers downgauging, increases in productivity and packing speed.

Main Characteristics:

For high speed, thin film applications

Additional thermal stability

Complies with:

U.S. FDA 21 177 1520 (c) 3.2a

Consult the regulations for complete details.

| General Information                       |                              |                   |                 |
|-------------------------------------------|------------------------------|-------------------|-----------------|
| Additive                                  | Anti-caking agent (2500 ppm) |                   |                 |
|                                           | Sliding agent (1000 ppm)     |                   |                 |
| Agency Ratings                            | FDA 21 CFR 177.1520(c) 3.2a  |                   |                 |
|                                           | Europe No 10/2011            |                   |                 |
| Forms                                     | Particle                     |                   |                 |
| Processing Method                         | Blow film                    |                   |                 |
| Physical                                  | Nominal Value                | Unit              | Test Method     |
| Specific Gravity                          | 0.919                        | g/cm <sup>3</sup> | ASTM D792       |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.95                         | g/10 min          | ASTM D1238      |
| Films                                     | Nominal Value                | Unit              | Test Method     |
| Film Thickness - Tested                   | 38                           | µm                |                 |
| Film Puncture Resistance (38 µm)          | 9.02                         | J/cm <sup>3</sup> | Internal method |
| secant modulus                            |                              |                   | ASTM D882       |
| 2% secant, MD: 38 µm                      | 170                          | MPa               | ASTM D882       |
| 2% secant, TD: 38 µm                      | 210                          | MPa               | ASTM D882       |
| Tensile Strength                          |                              |                   | ASTM D882       |
| MD: Yield, 38 µm                          | 10.0                         | MPa               | ASTM D882       |
| TD: Yield, 38 µm                          | 10.0                         | MPa               | ASTM D882       |
| MD: Fracture, 38 µm                       | 37.0                         | MPa               | ASTM D882       |
| TD: Fracture, 38 µm                       | 32.0                         | MPa               | ASTM D882       |
| Tensile Elongation                        |                              |                   | ASTM D882       |
| MD: Fracture, 38 µm                       | 830                          | %                 | ASTM D882       |
| TD: Fracture, 38 µm                       | 990                          | %                 | ASTM D882       |
| Dart Drop Impact (38 µm)                  | 360                          | g                 | ASTM D1709A     |
| Elmendorf Tear Strength <sup>1</sup>      |                              |                   | ASTM D1922      |
| MD : 38 µm                                | 700                          | g                 | ASTM D1922      |

| TD : 38 μm                                                                                                                                                                              | 920           | g    | ASTM D1922  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|-------------|
| Optical                                                                                                                                                                                 | Nominal Value | Unit | Test Method |
| Gloss (45°, 37.5 μm)                                                                                                                                                                    | 57            |      | ASTM D2457  |
| Haze (37.5 μm)                                                                                                                                                                          | 12            | %    | ASTM D1003  |
| Extrusion                                                                                                                                                                               | Nominal Value | Unit |             |
| Melt Temperature                                                                                                                                                                        | 217           | °C   |             |
| Extrusion instructions                                                                                                                                                                  |               |      |             |
| 吹塑薄膜的制造条件:<br>螺杆尺寸:2.3 英寸 (60 mm);32:1 比率 L/D<br>模具间隙:70 密尔 (1.8 mm)<br>熔体温度:423°F (217°C)<br>输出:46.9 Kg/h<br>模具直径:5.9 英寸 (150 mm)<br>放大比:2.5:1<br>螺杆速度:60 rpm<br>冷冻线高度:19.7 英寸 (50 cm) |               |      |             |
| NOTE                                                                                                                                                                                    |               |      |             |
| 1.                                                                                                                                                                                      | Method B      |      |             |

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