



# Lumicene<sup>®</sup> mPE M2710

Metallocene Polyethylene Film Resin

FILM

## RESIN PROPERTIES <sup>(1)</sup>

|                      | Method | Unit              | Typical Value |
|----------------------|--------|-------------------|---------------|
| Melt Flow Index      | D1238  | g/10 min          | –             |
| 190°C/2.16 kg        | –      | –                 | 0.9           |
| 190°C/21.6 kg (HLMI) | –      | –                 | 30            |
| Density              | D792   | g/cm <sup>3</sup> | 0.927         |
| Melting Temperature  | D3418  | °F                | 250           |

## FILM PROPERTIES <sup>(1) (2)</sup>

|                           | Method   | Unit                      | Typical Value   |
|---------------------------|----------|---------------------------|-----------------|
| Haze                      | D1003    | %                         | 7               |
| Gloss, 45°                | D2457    | –                         | 65              |
| Dart Impact               | D1709, A | g                         | 150             |
| Elmendorf Tear            | D1922    | g (MD/TD)                 | 165 / 500       |
| Tensile Strength at Break | D882, A  | psi (MD/TD)               | 4,900 / 4,800   |
| Elongation at Break       | D882, A  | % (MD/TD)                 | 580 / 720       |
| 1% Secant Modulus         | D882, A  | psi (MD/TD)               | 31,000 / 25,000 |
| WVTR <sup>(3)</sup>       | F1294    | g/100in <sup>2</sup> /day | 0.90            |

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) Film was produced at 1.0 mil with a 2.5:1 BUR.

(3) Water Vapor Transmission Rate at 100°F / 90%RH.

## CHARACTERISTICS:

- Outstanding clarity and gloss
- Excellent bubble stability
- Excellent tear strength
- High puncture resistance
- Good stiffness
- Excellent heat sealing properties
- Excellent compatibility with LDPE and LLDPE

## APPLICATIONS:

- Clarity shrink films
- Food packaging
- Laminations and multilayer packaging films
- Machine direction oriented (MDO) films

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