

## Marlex® 5628 Polyethylene

### LOW DENSITY POLYETHYLENE (LDPE)

This low density polyethylene is tailored for blown film applications that require:

- Superior strength
- Good abrasion and tear resistance
- Exceptional shrink and shrink tension
- High coefficient of friction

Typical blown film applications include:

- Heavy duty packaging
- Pallet shrink
- Case shrink wrap
- C&A film and container liners

| Nominal Resin Properties    | English  | SI                      | Method     |
|-----------------------------|----------|-------------------------|------------|
| Melt Index, 190 °C/2.16 kg  | ---      | 0.4 g/10 min            | ASTM D1238 |
| Density                     | ---      | 0.922 g/cm <sup>3</sup> | ASTM D1505 |
| Slip                        | None     | None                    | ---        |
| Antiblock                   | 1500 ppm | 1500 ppm                | ---        |
| Vicat Softening Temperature | 208 °F   | 98 °C                   | ASTM D1525 |
| Melting Point               | 231 °F   | 111 °C                  | ASTM D3418 |

| Nominal Blown Film Properties at 2.0 mil <sup>1,2</sup> | English                                      | SI                                        | Method     |
|---------------------------------------------------------|----------------------------------------------|-------------------------------------------|------------|
| Haze                                                    | 7 %                                          | 7 %                                       | ASTM D1003 |
| Gloss, 60°                                              | 100                                          | 100                                       | ASTM D2457 |
| COF                                                     | 0.5                                          | 0.5                                       | ASTM D1894 |
| Dart                                                    | ---                                          | 200 g                                     | ASTM D1709 |
| Elmendorf Tear MD/TD                                    | ---                                          | 230/250 g                                 | ASTM D1922 |
| Tensile Strength at Break MD/TD                         | 4200/3900 psi                                | 29/27 MPa                                 | ASTM D882  |
| Tensile Elongation at Break MD/TD                       | 225/550 %                                    | 225/550 %                                 | ASTM D882  |
| 1 % Secant Modulus MD/TD                                | 26000/30000 psi                              | 179/207 MPa                               | ASTM D882  |
| WVTR                                                    | 0.7 g/100in <sup>2</sup> /day                | 10.85 g/m <sup>2</sup> /day               | ASTM F1249 |
| OTR                                                     | 270 cm <sup>3</sup> /100in <sup>2</sup> /day | 4000 cm <sup>3</sup> /m <sup>2</sup> /day | ASTM D3985 |

1. Produced on a LDPE line at 2.5:1 BUR, 35 mil die gap, 8 in. die, 250 lb/h, 400 °F melt temperature.

2. Not recommended for gauges under 2.0 mil

Another quality product from

