

# Marlex® 5429 Polyethylene

## LOW DENSITY POLYETHYLENE (LDPE)

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

- Excellent openability
- Suited for high speed converting
- Good clarity
- Medium coefficient of friction

Typical cast film applications include:

- Converter film
- General purpose packaging

| Nominal Resin Properties    | English | SI                      | Method     |
|-----------------------------|---------|-------------------------|------------|
| Melt Index, 190 °C/2.16 kg  | ---     | 2.2 g/10 min            | ASTM D1238 |
| Density                     | ---     | 0.930 g/cm <sup>3</sup> | ASTM D1505 |
| Slip                        | 600     | 600                     | ---        |
| Antiblock                   | 10000   | 10000                   | ---        |
| Vicat Softening Temperature | 209 °F  | 99 °C                   | ASTM D1525 |
| Melting Point               | 232 °F  | 111 °C                  | ASTM D3418 |

| Nominal Cast Film Properties at 1.25 mil <sup>1</sup> | English                                      | SI                                        | Method     |
|-------------------------------------------------------|----------------------------------------------|-------------------------------------------|------------|
| Haze                                                  | 7 %                                          | 7 %                                       | ASTM D1003 |
| Gloss, 60°                                            | 115                                          | 115                                       | ASTM D2457 |
| COF                                                   | 0.25                                         | 0.25                                      | ASTM D1894 |
| Dart                                                  | ---                                          | 75 g/mil                                  | ASTM D1709 |
| Elmendorf Tear MD                                     | ---                                          | 175 g/mil                                 | ASTM D1922 |
| Elmendorf Tear TD                                     | ---                                          | 250 g/mil                                 | ASTM D1922 |
| WVTR                                                  | 0.90 g/100in <sup>2</sup> /day               | 14 g/m <sup>2</sup> /day                  | ASTM F1249 |
| OTR                                                   | 420 cm <sup>3</sup> /100in <sup>2</sup> /day | 6300 cm <sup>3</sup> /m <sup>2</sup> /day | ASTM D3985 |

1. Produced using a smooth bore extruder at a rate of 7 lb/in die cast film line

