

# Nexxstar™ Low EVA-00111

## Low Density Polyethylene Resin

### Product Description

Nexxstar™ Low EVA-00111 resin is a copolymer of ethylene and vinyl acetate.

### General

|              |                 |                 |                           |
|--------------|-----------------|-----------------|---------------------------|
| Additive     | ▪ Antiblock: No | ▪ Slip: 150 ppm | ▪ Thermal Stabilizer: Yes |
| Applications | ▪ Stretch Hood  |                 |                           |
| Form(s)      | ▪ Pellets       |                 |                           |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density                    | 0.928 g/cm <sup>3</sup> | 0.928 g/cm <sup>3</sup> | ASTM D1505        |
| Melt Index (190°C/2.16 kg) | 0.50 g/10 min           | 0.50 g/10 min           | ASTM D1238        |
| Vinyl Acetate Content      | 7.5 wt%                 | 7.5 wt%                 | ExxonMobil Method |
| Peak Melting Temperature   | 212 °F                  | 100 °C                  | ExxonMobil Method |

| Thermal                     | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Vicat Softening Temperature | 176 °F                  | 80 °C              | ASTM D1525    |

| Film Properties               | Typical Value (English) | Typical Value (SI) | Test Based On     |
|-------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield MD  | 1400 psi                | 9.8 MPa            | ASTM D882         |
| Tensile Strength at Yield TD  | 940 psi                 | 6.5 MPa            | ASTM D882         |
| Tensile Strength at Break MD  | 4900 psi                | 34 MPa             | ASTM D882         |
| Tensile Strength at Break TD  | 4300 psi                | 29 MPa             | ASTM D882         |
| Elongation at Break MD        | 200 %                   | 200 %              | ASTM D882         |
| Elongation at Break TD        | 620 %                   | 620 %              | ASTM D882         |
| Secant Modulus MD - 1% Secant | 16000 psi               | 110 MPa            | ASTM D882         |
| Secant Modulus TD - 1% Secant | 19000 psi               | 130 MPa            | ASTM D882         |
| Dart Drop Impact              | 360 g                   | 360 g              | ASTM D1709A       |
| Elmendorf Tear Strength MD    | 190 g                   | 190 g              | ASTM D1922        |
| Elmendorf Tear Strength TD    | 60 g                    | 60 g               | ASTM D1922        |
| Puncture Force                | 15 lbf                  | 67 N               | ExxonMobil Method |
| Puncture Energy               | 25 in·lb                | 2.8 J              | ExxonMobil Method |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°)        | 52                      | 52                 | ASTM D2457    |
| Haze               | 9.4 %                   | 9.4 %              | ASTM D1003    |

