



# AGILITY™ EC 7000 Performance LDPE

## Low Density Polyethylene Resin

**Overview** AGILITY EC 7000 Performance LDPE is a next generation low density polyethylene resin for high speed extrusion coating

**Main Characteristics:**

- Recommended for extrusion at high and low temperatures
- Robustness in melt drawing
- Performance as sealant polymer

**Complies with:**

- Europe Commission Regulation (EU) No 10/2011
- U.S. FDA 21 CFR 177.1520 (c )2.1

Consult the regulations for complete details.

**Additive** • Antiblock: No • Slip: No • Processing Aid: No

| Physical  | Nominal Value (English) | Nominal Value (SI)      | Test Method |
|---|-------------------------|-------------------------|-------------|
| Density   | 0.919 g/cm <sup>3</sup> | 0.919 g/cm <sup>3</sup> | ASTM D1505  |
| Base Density <sup>1</sup>   | 0.919 g/cm <sup>3</sup> | 0.919 g/cm <sup>3</sup> | Dow Method  |
| Melt Mass-Flow Rate (190°C/2.16 kg)   | 3.9 g/10 min            | 3.9 g/10 min            | ASTM D1238  |
| Mechanical  | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Tensile Stress (Break)  | 1450 psi                | 10.0 MPa                | ISO 527-2   |
| Tensile Strain (Break)  | 540 %                   | 540 %                   | ISO 527-2   |
| Thermal   | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Melting Temperature   | 230 °F                  | 110 °C                  | Dow Method  |
| Extrusion   | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Draw Down - from 15 g/m <sup>2</sup> @ 100 m/min <sup>2</sup> (608°F (320°C)) | 1600 ft/min             | 500 m/min               | Dow Method  |
| Neck-in - 25 g/m <sup>2</sup> @ 100 mpm <sup>2</sup> (608°F (320°C))          | 5.8 in                  | 148.0 mm                | Dow Method  |

**Notes**

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

<sup>1</sup> Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm<sup>3</sup>. Base density is the estimated density of the polymer if it did not contain any antiblock.

<sup>2</sup> Coating onto paper substrate and/or coating web at 250 mm air gap and -15mm nip off-set.

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