

# Exceed™ 1012 HA mVLDPE

## Metallocene Polyethylene Resin

### Product Description

EXCEED 1012 HA resin is a metallocene ethylene-hexene copolymer. Films made from this resins have outstanding cold temperature toughness, impact strength and puncture. These superior strength properties, along with excellent heat sealing and hot tack performance, make this a very versatile packaging film resin.

### General

|              |                                                                                                                                          |                                                                                                                                                                                                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additive     | <ul style="list-style-type: none"> <li>Antiblock: No</li> <li>Slip: No</li> </ul>                                                        | <ul style="list-style-type: none"> <li>Processing Aid: Yes</li> <li>Thermal Stabilizer: Yes</li> </ul>                                                                                                                                |
| Applications | <ul style="list-style-type: none"> <li>Bag in Box</li> <li>Barrier Food Packaging</li> <li>Blown Film</li> <li>Food packaging</li> </ul> | <ul style="list-style-type: none"> <li>Form Fill And Seal Packaging</li> <li>Freezer Film</li> <li>Heavy Duty Bags</li> <li>Ice Bags</li> <li>Lamination Film</li> <li>Multilayer Packaging Film</li> <li>Stand Up Pouches</li> </ul> |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density                    | 0.912 g/cm <sup>3</sup> | 0.912 g/cm <sup>3</sup> | ExxonMobil Method |
| Melt Index (190°C/2.16 kg) | 1.0 g/10 min            | 1.0 g/10 min            | ASTM D1238        |
| Peak Melting Temperature   | 238 °F                  | 115 °C                  | ExxonMobil Method |

| Film Properties               | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield MD  | 1000 psi                | 7.0 MPa            | ASTM D882     |
| Tensile Strength at Yield TD  | 980 psi                 | 6.8 MPa            | ASTM D882     |
| Tensile Strength at Break MD  | 8300 psi                | 60 MPa             | ASTM D882     |
| Tensile Strength at Break TD  | 8000 psi                | 60 MPa             | ASTM D882     |
| Elongation at Break MD        | 450 %                   | 450 %              | ASTM D882     |
| Elongation at Break TD        | 600 %                   | 600 %              | ASTM D882     |
| Secant Modulus MD - 1% Secant | 17000 psi               | 120 MPa            | ASTM D882     |
| Secant Modulus TD - 1% Secant | 18000 psi               | 130 MPa            | ASTM D882     |
| Dart Drop Impact              | > 1400 g                | > 1400 g           | ASTM D1709    |
| Elmendorf Tear Strength MD    | 200 g                   | 200 g              | ASTM D1922    |
| Elmendorf Tear Strength TD    | 310 g                   | 310 g              | ASTM D1922    |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°)        | 30                      | 30                 | ASTM D2457    |
| Haze               | 24 %                    | 24 %               | ASTM D1003    |

### Additional Information

Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

### Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

### Processing Statement

Film (1 mil/25.4 micron) made from Exceed 1012HA on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 403°F (206°C), a 60 mil (1.52 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).