

Exceed™ 2018HA

Metallocene Polyethylene Resin

Product Description

Exceed 2018HA is a metallocene catalyzed ethylene-hexene copolymer. Films made from Exceed 2018HA have outstanding tensile, impact strength, and puncture. These superior strength properties, along with excellent drawability, makes this a very versatile packaging film resin. The higher melt index also makes this polymer ideally suited for blending into LDPE rich films.

General

| | |
|---------------------------|--|
| Availability ¹ | <ul style="list-style-type: none"> Africa & Middle East Asia Pacific Europe |
| Additive | <ul style="list-style-type: none"> Antiblock: No Slip: No Processing Aid: Yes Thermal Stabilizer: Yes |
| Applications | <ul style="list-style-type: none"> Bag in Box Barrier Food Packaging Blown Film Blown Stretch Film Bread Bags Food packaging Form Fill And Seal Packaging Freezer Film General Packaging Heavy Duty Bags Lamination Film Multilayer Packaging Film Overwrap Film Packaging Films Premium Trash Bags Stand Up Pouches Trash Bags |
| Form(s) | <ul style="list-style-type: none"> Pellets |
| Revision Date | <ul style="list-style-type: none"> 12/01/2012 |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.918 g/cm ³ | 0.918 g/cm ³ | ExxonMobil Method |
| Melt Index (190°C/2.16 kg) | 2.0 g/10 min | 2.0 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 243 °F | 117 °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield MD | 1300 psi | 9.1 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1300 psi | 9.1 MPa | ASTM D882 |
| Tensile Strength at Break MD | 8700 psi | 60 MPa | ASTM D882 |
| Tensile Strength at Break TD | 8100 psi | 60 MPa | ASTM D882 |
| Elongation at Break MD | 590 % | 590 % | ASTM D882 |
| Elongation at Break TD | 700 % | 700 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 24000 psi | 160 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 26000 psi | 180 MPa | ASTM D882 |
| Dart Drop Impact | 670 g | 670 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 330 g | 330 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 460 g | 460 g | ASTM D1922 |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 18 | 18 | ASTM D2457 |
| Haze | 37 % | 37 % | ASTM D1003 |

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 2018HA on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 396°F (202°C), a 60 mil (1.52 mm) die gap at a rate of 9 lbs/hr/in die circumference (1.61 kg/hr/cm).

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Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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