

Exceed™ 3812CB Cast

Performance Polymer

Product Description

Exceed 3812CB is an ethylene 1-hexene copolymer. Films made from Exceed 3812CB have outstanding toughness, impact strength, and puncture. These superior strength properties make this a very versatile packaging film resin and ideally suited for stretch film. It can also be used to enhance the sealing caulkability of lower melt index materials.

General

| | | | |
|---------------------------|---|--|---|
| Availability ¹ | <ul style="list-style-type: none"> Africa & Middle East Asia Pacific | <ul style="list-style-type: none"> Europe Latin America | <ul style="list-style-type: none"> North America |
| Additive | <ul style="list-style-type: none"> Exceed 3812CB: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes | | |
| Applications | <ul style="list-style-type: none"> Cast Film Cast Stretch Film Extrusion Coating | <ul style="list-style-type: none"> Food Packaging Form Fill And Seal Packaging Hygiene film | <ul style="list-style-type: none"> Packaging Films |
| Revision Date | <ul style="list-style-type: none"> 02/23/2018 | | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.912 g/cm ³ | 0.912 g/cm ³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 3.8 g/10 min | 3.8 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 230 °F | 110 °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield MD | 780 psi | 5.3 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 650 psi | 4.5 MPa | ASTM D882 |
| Tensile Strength at Break MD | 6900 psi | 48 MPa | ASTM D882 |
| Tensile Strength at Break TD | 6300 psi | 44 MPa | ASTM D882 |
| Elongation at Break MD | 450 % | 450 % | ASTM D882 |
| Elongation at Break TD | 610 % | 610 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 13000 psi | 87 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 14000 psi | 97 MPa | ASTM D882 |
| Dart Drop Impact ² | 610 g | 610 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 250 g | 250 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 440 g | 440 g | ASTM D1922 |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 86 | 86 | ASTM D2457 |
| Haze | 2.7 % | 2.7 % | 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 (0.8 mil/20 micron) made from Exceed 3812CB on a Black Clawson cast line at a 5.5 inch (14 cm) melt curtain length, 520-540 °F (275-310 °C) melt temperature, 80 °F (27 °C) chill roll temperature, and 770 fpm (235 mpm) line speed.

Notes

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.

² Dart Head Type C

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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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