

## Exceed™ 3518CB Cast Performance Polymer

### Product Description

Exceed 3518 resins are ethylene 1-hexene copolymers. Films made from Exceed 3518 resins have outstanding tensile properties and impact and puncture toughness. These superior properties, along with excellent drawability, make these resins versatile for both monolayer and multilayer cast packaging film.

### General

|                           |  |
|---------------------------|--|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> <li>Europe</li> <li>Latin America</li> <li>North America</li> </ul>   |
| Additive                  | <ul style="list-style-type: none"> <li>Exceed 3518CB: Antiblock: No; Slip: No; Processing Aid: No; 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>Cast Film</li> <li>Cast Stretch Film</li> <li>Diaper Backsheet</li> <li>Food Packaging</li> <li>Form Fill And Seal Packaging</li> <li>Hygiene film</li> <li>Packaging Films</li> <li>Personal Care</li> </ul> |
| Revision Date             | <ul style="list-style-type: none"> <li>02/23/2018</li> </ul>   |

### Resin Properties

### Typical Value Unit

### Test Based On

|                            |                                |                   |
|----------------------------|--------------------------------|-------------------|
| Density / Specific Gravity | <b>0.918</b> g/cm <sup>3</sup> | ASTM D792         |
| Melt Index (190°C/2.16 kg) | <b>3.5</b> g/10 min            | ASTM D1238        |
| Peak Melting Temperature   | <b>237</b> °F                  | ExxonMobil Method |

### Film Properties

### Typical Value Unit

### Test Based On

|                              |                  |           |
|------------------------------|------------------|-----------|
| Tensile Strength at Yield MD | <b>1200</b> psi  | ASTM D882 |
| Tensile Strength at Yield TD | <b>1100</b> psi  | ASTM D882 |
| Tensile Strength at Break MD | <b>11000</b> psi | ASTM D882 |
| Tensile Strength at Break TD | <b>6800</b> psi  | ASTM D882 |
| Elongation at Break MD       | <b>510</b> %     | ASTM D882 |
| Elongation at Break TD       | <b>680</b> %     | ASTM D882 |

|                               |                  |                   |
|-------------------------------|------------------|-------------------|
| Secant Modulus MD - 1% Secant | <b>16000</b> psi | ASTM D882         |
| Secant Modulus TD - 1% Secant | <b>18000</b> psi | ASTM D882         |
| Dart Drop Impact              | <b>140</b> g     | ASTM D1709A       |
| Elmendorf Tear Strength MD    | <b>190</b> g     | ASTM D1922        |
| Elmendorf Tear Strength TD    | <b>500</b> g     | ASTM D1922        |
| Puncture Force                | <b>11</b> lbf    | ExxonMobil Method |
| Puncture Energy               | <b>38</b> in·lb  | ExxonMobil Method |

| Optical Properties | Typical Value Unit | Test Based On |
|--------------------|--------------------|---------------|
| Gloss (45°)        | <b>86</b>          | ASTM D2457    |
| Haze               | <b>2.4</b> %       | ASTM D1003    |

#### Legal Statement

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

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

#### Processing Statement

Film (0.8 mil / 20 micron) made from Exceed 3518CB on a 3.5 inch cast line at a 5.5 inch melt curtain length, 530-590°F (277-310°C) melt temperature, 80°F chill roll temperature and 750 fpm line speed.

#### Notes

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

For additional technical, sales and order assistance:

[www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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

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