

# Exceed™ 3518PA Cast

## Performance Polymer

### Product Description

Exceed 3518PA resin is an ethylene 1-hexene copolymer. Films made from Exceed 3518PA resin 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. TnPP is not intentionally added to Exceed 3518PA.

### General

|                           |   |   |  |
|---------------------------|---|---|--|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Asia Pacific</li> <li>Europe</li> </ul>  | <ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>  |  |
| Additive                  | Exceed 3518PA: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes   |   |  |
| 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> </ul> | <ul style="list-style-type: none"> <li>Cast Stretch Film</li> <li>Diaper Backsheet</li> <li>Food Packaging</li> <li>Form Fill And Seal Packaging</li> </ul> | <ul style="list-style-type: none"> <li>Hygiene film</li> <li>Packaging Films</li> <li>Personal Care</li> </ul> |
| Revision Date             | 05/22/2018  |   |  |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density / Specific Gravity | 0.918 g/cm <sup>3</sup> | 0.918 g/cm <sup>3</sup> | ASTM D792         |
| Melt Index (190°C/2.16 kg) | 3.5 g/10 min            | 3.5 g/10 min            | ASTM D1238        |
| Peak Melting Temperature   | 237 °F                  | 114 °C                  | ExxonMobil Method |

| Film Properties               | Typical Value (English) | Typical Value (SI) | Test Based On     |
|-------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield MD  | 1200 psi                | 8.3 MPa            | ASTM D882         |
| Tensile Strength at Yield TD  | 1100 psi                | 7.6 MPa            | ASTM D882         |
| Tensile Strength at Break MD  | 11000 psi               | 70 MPa             | ASTM D882         |
| Tensile Strength at Break TD  | 6800 psi                | 47 MPa             | ASTM D882         |
| Elongation at Break MD        | 510 %                   | 510 %              | ASTM D882         |
| Elongation at Break TD        | 680 %                   | 680 %              | ASTM D882         |
| Secant Modulus MD - 1% Secant | 16000 psi               | 110 MPa            | ASTM D882         |
| Secant Modulus TD - 1% Secant | 18000 psi               | 120 MPa            | ASTM D882         |
| Dart Drop Impact              | 140 g                   | 140 g              | ASTM D1709A       |
| Elmendorf Tear Strength MD    | 190 g                   | 190 g              | ASTM D1922        |
| Elmendorf Tear Strength TD    | 500 g                   | 500 g              | ASTM D1922        |
| Puncture Force                | 11 lbf                  | 47 N               | ExxonMobil Method |
| Puncture Energy               | 38 in-lb                | 4.3 J              | ExxonMobil Method |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (60°)        | 86                      | 86                 | ASTM D2457    |
| Haze               | 2.4 %                   | 2.4 %              | ASTM D1003    |

### Legal Statement

Tris(nonylphenol)phosphite (TNPP) CAS# 26523-78-4 is not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for its presence, based on product composition knowledge this substance is not expected to be present. However, the fact that this substance is not intentionally used by ExxonMobil in this product does not exclude that trace levels of this substance may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

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 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.

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### Notes

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

<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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