

# Exceed™ Tough+ m 1019.ML

(Legacy name: Exceed™ XP 8318ML)

## Metallocene Polyethylene

### Product Description

Exceed™ Tough+ m 1019.ML is an eXtreme Performance ethylene 1-hexene copolymer that offers step-out toughness, high flex-crack resistance and increased output with excellent bubble stability for a range of blown film applications. TnPP is not intentionally added to Exceed™ Tough+ m 1019.ML. Exceed™ Tough+ m 1019.ML - when eXtreme Performance matters.

### General

|                           |                                                                                                  |                                                                                                   |                                                                    |
|---------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> </ul> | <ul style="list-style-type: none"> <li>Europe</li> <li>Latin America</li> </ul>                   | <ul style="list-style-type: none"> <li>North America</li> </ul>    |
| Additive                  | Exceed™ Tough+ m 1019.ML: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes  |                                                                                                   |                                                                    |
| Applications              | <ul style="list-style-type: none"> <li>Agricultural Film</li> <li>Blown Silage</li> </ul>        | <ul style="list-style-type: none"> <li>Construction Liners</li> <li>Flexible Packaging</li> </ul> | <ul style="list-style-type: none"> <li>Liquid Packaging</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) | 1.0 g/10 min            | 1.0 g/10 min            | ASTM D1238        |
| Peak Melting Temperature   | 250 °F                  | 121 °C                  | ExxonMobil Method |

| Film Properties               | Typical Value (English) | Typical Value (SI) | Test Based On     |
|-------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield MD  | 1400 psi                | 9.7 MPa            | ASTM D882         |
| Tensile Strength at Yield TD  | 1500 psi                | 10 MPa             | ASTM D882         |
| Tensile Strength at Break MD  | 9300 psi                | 60 MPa             | ASTM D882         |
| Tensile Strength at Break TD  | 7500 psi                | 50 MPa             | ASTM D882         |
| Elongation at Break MD        | 370 %                   | 370 %              | ASTM D882         |
| Elongation at Break TD        | 660 %                   | 660 %              | ASTM D882         |
| Secant Modulus MD - 1% Secant | 28000 psi               | 190 MPa            | ASTM D882         |
| Secant Modulus TD - 1% Secant | 33000 psi               | 230 MPa            | ASTM D882         |
| Dart Drop Impact              | 670 g                   | 670 g              | ASTM D1709        |
| Elmendorf Tear Strength MD    | 370 g                   | 370 g              | ASTM D1922        |
| Elmendorf Tear Strength TD    | 470 g                   | 470 g              | ASTM D1922        |
| Puncture Force                | 10 lbf                  | 44 N               | ExxonMobil Method |
| Puncture Energy               | 29 in-lb                | 3.2 J              | ExxonMobil Method |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°)        | 20                      | 20                 | ASTM D2457    |
| Haze               | > 30 %                  | > 30 %             | 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.

Exceed™ Tough+ m 1019.ML can - in principle - be used in food contact applications in all EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

**Exceed™ Tough+ m 1019.ML**  
Metallocene Polyethylene**Processing Statement**

Film (1mil/25.4 micron) made from Exceed™ Tough+ m 1019.ML on a 3.5 inch (90mm) blown film line with a 2.5:1 blow-up ratio, a target melt temperature of 400°F (204°C), a 90 mil (2.286 mm) die gap at a rate of 15 lbs/hr/in die circumference.

**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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