

Product Datasheet



# Enable™ 1617RA

## Performance Polymer

### Product Description

Enable™ 1617RA is an ethylene 1-hexene copolymer. Enable™ 1617RA is designed to deliver enhanced processability with the film exhibiting superior optical properties such as haze and gloss.

### 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	<ul style="list-style-type: none"> <li>Antiblock: No</li> <li>Slip: No</li> </ul>	<ul style="list-style-type: none"> <li>Thermal Stabilizer: Yes</li> <li>Alternative Processing Aid: Yes</li> </ul>	
Applications	<ul style="list-style-type: none"> <li>Agricultural Film</li> <li>Blown Film</li> <li>Food Packaging</li> <li>Form Fill And Seal Packaging</li> </ul>	<ul style="list-style-type: none"> <li>Heavy Duty Bags</li> <li>Lamination Film</li> <li>Multilayer Packaging Film</li> <li>Shrink Film</li> </ul>	<ul style="list-style-type: none"> <li>Stand Up Pouches</li> <li>Stretch Film</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Revision Date	<ul style="list-style-type: none"> <li>04/19/2024</li> </ul>		

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.916 g/cm <sup>3</sup>	0.916 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	1.7 g/10 min	1.7 g/10 min	ASTM D1238
Peak Melting Temperature	228 °F	109 °C	ExxonMobil Method

### Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	209 °F	99 °C	ASTM D1525

### 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	1200 psi	8.1 MPa	ASTM D882
Tensile Strength at Break MD	8300 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	7900 psi	50 MPa	ASTM D882
Elongation at Break MD	550 %	550 %	ASTM D882
Elongation at Break TD	700 %	700 %	ASTM D882
Secant Modulus MD - 1% Secant	22000 psi	150 MPa	ASTM D882
Secant Modulus TD - 1% Secant	22000 psi	150 MPa	ASTM D882
Dart Drop Impact	360 g	360 g	ASTM D1709A
Elmendorf Tear Strength MD	170 g	170 g	ASTM D1922
Elmendorf Tear Strength TD	380 g	380 g	ASTM D1922
Puncture Force	11 lbf	49 N	ExxonMobil Method
Puncture Energy	34 in-lb	3.8 J	ExxonMobil Method

### Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	61	61	ASTM D2457
Haze	7.3 %	7.3 %	ASTM D1003

### Legal Statement

Fluoropolymers, or fluorine-containing compounds, and tris(nonylphenol) phosphite (TNPP) CAS# 26523-78-4 are not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for their presence, based on product composition knowledge these substances are not expected to be present. However, the fact that these substances are not intentionally used by ExxonMobil in this product does not exclude that trace levels of these substances 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).

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Performance Polymer

Processing Statement

Film (1 mil/25.4 micron) made from Enable™ 1617RA on a 2.5 in (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 380 - 400°F (193 - 204 °C), a 30 mil (0.76 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).

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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