

# Enable™ 2203MC

## Performance Polymer

### Product Description

Enable™ 2203MC resin is an ethylene 1-hexene copolymer. Enable™ performance polymer resins offer an outstanding balance between processing and film properties, including tensile, impact and puncture. Easier processing and excellent properties lead to significant high pressure LDPE replacement in many applications, yet with superior drawdown and enhanced toughness. TnPP is not intentionally added to Enable™ 2203MC resin.

### 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>Processing Aid: Yes</li> <li>Thermal Stabilizer: Yes</li> </ul>	
Applications	<ul style="list-style-type: none"> <li>Agricultural Film</li> <li>Blown Film</li> </ul>	<ul style="list-style-type: none"> <li>Heavy Duty Bags</li> <li>Multilayer Packaging Film</li> </ul>	<ul style="list-style-type: none"> <li>Shrink Film</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Revision Date	<ul style="list-style-type: none"> <li>06/03/2020</li> </ul>		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.922 g/cm <sup>3</sup>	0.922 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	0.27 g/10 min	0.27 g/10 min	ASTM D1238
Peak Melting Temperature	241 °F	116 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	230 °F	110 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1700 psi	11 MPa	ASTM D882
Tensile Strength at Yield TD	1900 psi	13 MPa	ASTM D882
Tensile Strength at Break MD	8400 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	8300 psi	60 MPa	ASTM D882
Elongation at Break MD	430 %	430 %	ASTM D882
Elongation at Break TD	680 %	680 %	ASTM D882
Secant Modulus MD - 1% Secant	37000 psi	250 MPa	ASTM D882
Secant Modulus TD - 1% Secant	46000 psi	320 MPa	ASTM D882
Dart Drop Impact	250 g	250 g	ASTM D1709A
Elmendorf Tear Strength MD	40 g	40 g	ASTM D1922
Elmendorf Tear Strength TD	430 g	430 g	ASTM D1922
Puncture Force	12 lbf	54 N	ExxonMobil Method
Puncture Energy	30 in·lb	3.4 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	43	43	ASTM D2457
Haze	12 %	12 %	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.

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.

## Enable™ 2203MC Performance Polymer

### Processing Statement

Film (1 mil/25.4 micron) made from Enable™ 2203MC on a 3.5 in (90 mm) blown film line with a 2.5:1 blow-up ratio, a target melt temperature of 400°F (204°C), a 30 mil (0.77 mm) die gap at a rate of 15 lbs/hr/in die circumference (0.85 kg/hr/mm-diameter).

### 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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