

Exceed™ Tough+ m 1019.RL

Metallocene Polyethylene

Product Description

Exceed™ Tough+ m 1019.RL 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. Fluoropolymers, or fluorine-containing compounds, and TNPP are not intentionally added to Exceed™ Tough+ m 1019.RL. Exceed™ Tough+ m 1019.RL - when eXtreme Performance matters.

General

Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America
Additive	<ul style="list-style-type: none"> Antiblock: No Slip: No 	<ul style="list-style-type: none"> Thermal Stabilizer: Yes Alternative Processing Aid: Yes 	
Applications	<ul style="list-style-type: none"> Agricultural Film Blown Silage 	<ul style="list-style-type: none"> Construction Liners Flexible Packaging 	<ul style="list-style-type: none"> Liquid Packaging
Form(s)	<ul style="list-style-type: none"> Pellets 		
Revision Date	<ul style="list-style-type: none"> 04/19/2024 		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.918 g/cm ³	0.918 g/cm ³	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

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, 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 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.

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Processing Statement

Film (1 mil/25.4 micron) made on a 3.5 inch (90 mm) 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.

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

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