

Exceed™ Tough+ m 0512.RA

(Legacy name: Exceed™ XP 7052RA)

Metallocene Polyethylene

Product Description

Exceed™ Tough+ m 0512.RA is an eXtreme Performance linear low density polyethylene 1-hexene copolymer that is especially designed to have high melt strength and superior mechanical and optical properties. The combination of high toughness (impact and puncture), melt stability, superior flex crack resistance and good sealing performance makes this grade a versatile blown film resin. Fluoropolymers, or fluorine- containing compounds, and TNPP are not intentionally added to Exceed™ Tough+ m 0512.RA. Exceed™ Tough+ m 0512.RA - 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"> Cast Geomembrane Construction Liners Flexible Packaging Food Packaging 	<ul style="list-style-type: none"> Frozen Foods Greenhouse Film Lamination Film Liquid Packaging 	<ul style="list-style-type: none"> Mulch Film Shrink Film Stretch Hood Film Stretch Sleeves
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	0.912 g/cm ³	0.912 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	0.50 g/10 min	0.50 g/10 min	ASTM D1238

Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	980 psi	6.8 MPa	ASTM D882
Tensile Strength at Yield TD	980 psi	6.7 MPa	ASTM D882
Tensile Strength at Break MD	9700 psi	70 MPa	ASTM D882
Tensile Strength at Break TD	9700 psi	70 MPa	ASTM D882
Elongation at Break MD	410 %	410 %	ASTM D882
Elongation at Break TD	630 %	630 %	ASTM D882
Secant Modulus MD - 1% Secant	16000 psi	110 MPa	ASTM D882
Secant Modulus TD - 1% Secant	19000 psi	130 MPa	ASTM D882
Dart Drop Impact	900 g	900 g	ASTM D1709A
Elmendorf Tear Strength MD	80 g	80 g	ASTM D1922
Elmendorf Tear Strength TD	270 g	270 g	ASTM D1922
Puncture Force	14 lbf	60 N	ExxonMobil Method
Puncture Energy	46 in-lb	5.2 J	ExxonMobil Method

Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	66	66	ASTM D2457
Haze	5.3 %	5.3 %	ASTM D1003

Legal Statement

Exceed™ Tough+ m 0512.RA can in principle be used in food contact applications

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.

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Film (1 mil/25.4 micron) made on a 3.5 in(90mm)blown film line with a 2.5:1 blow-up ratio, a target melt temperature of 425°F(218°C), a 30 mil(0.76mm)die gap at a rate of 5 lbs/hr/rpm.

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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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