

Exceed™ Tough m 3812.PA

Metallocene Polyethylene

Product Description

Exceed™ Tough m 3812.PA resin is an ethylene 1-hexene copolymer. Films made from Exceed Tough m 3812.PA resin have outstanding toughness, impact strength, and puncture. These superior strength properties make this a very versatile packaging film resin and ideally suited for stretch film. It can also be used to enhance the sealing caulkability of lower melt index materials. TnPP is not intentionally added to Exceed Tough m 3812.PA resin.

General

Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe North America
Additive	<ul style="list-style-type: none"> Antiblock: No Slip: No 	<ul style="list-style-type: none"> Processing Aid: No Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> Cast Film Cast Stretch Film Extrusion Coating 	<ul style="list-style-type: none"> Food Packaging Form Fill And Seal Packaging Hygiene film
Revision Date	<ul style="list-style-type: none"> 09/01/2018 	

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)	3.8 g/10 min	3.8 g/10 min	ASTM D1238
Peak Melting Temperature	230 °F	110 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	780 psi	5.3 MPa	ASTM D882
Tensile Strength at Yield TD	650 psi	4.5 MPa	ASTM D882
Tensile Strength at Break MD	6900 psi	48 MPa	ASTM D882
Tensile Strength at Break TD	6300 psi	44 MPa	ASTM D882
Elongation at Break MD	450 %	450 %	ASTM D882
Elongation at Break TD	610 %	610 %	ASTM D882
Secant Modulus MD - 1% Secant	13000 psi	87 MPa	ASTM D882
Secant Modulus TD - 1% Secant	14000 psi	97 MPa	ASTM D882
Dart Drop Impact ²	610 g	610 g	ASTM D1709A
Elmendorf Tear Strength MD	250 g	250 g	ASTM D1922
Elmendorf Tear Strength TD	440 g	440 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	86	86	ASTM D2457
Haze	2.7 %	2.7 %	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.

Processing Statement

Film (0.8 mil/20 micron) made on a Black Clawson cast line at a 5.5 inch (14 cm) melt curtain length, 520-540°F (275-310°C) melt temperature, 80°F (27°C) chill roll temperature, and 770 fpm (235 mpm) line speed.

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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.

² Dart Head Type C

For additional technical, sales and order assistance: [Contact Us](#)

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