

ExceedTM Tough m 4536.PA Cast (Legacy name: ExceedTM 4536PA Cast)

(Legacy name: Exceed™ 4536PA Cast) Metallocene Polyethylene

Product Description

Exceed™ Tough m 4536.PA is an ethylene 1-hexene copolymer. Films made from Exceed™ Tough m 4536.PA have high modulus and tensile strength. These properties together with excellent drawability make this a versatile polymer for mono layer and multi-layer cast film applications. TnPP is not intentionally added to Exceed™ Tough m 4536.PA.

General					
Availability ¹	 Africa & Middle East Asia Pacific 		Asia Pacific	 Europe 	
Additive	 Antiblock: No 		Slip: No	 Thermal Stabilizer: Yes 	
Applications	Artificial grassCast Film		Diaper BacksheetHygiene film		
Revision Date	• 06/03/2020				
Resin Properties	Typical Value	(English)	Typical Val	ue (SI)	Test Based On
Density / Specific Gravity		g/cm³		36 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)		g/10 min		.5 g/10 min	ASTM D1238
Peak Melting Temperature	257			25 °C	ExxonMobil Method
Thermal	Typical Value	(English)	Typical Val	ue (SI)	Test Based On
Vicat Softening Temperature	244	_		18 °C	ExxonMobil Method
Film Properties	Typical Value	(English)	Typical Val	ue (SI)	Test Based On
Tensile Strength at Yield MD	2100	psi	71	15 MPa	ASTM D882
Tensile Strength at Yield TD	2200	psi		15 MPa	ASTM D882
Tensile Strength at Break MD	6200	psi		43 MPa	ASTM D882
Tensile Strength at Break TD	4800	psi		33 MPa	ASTM D882
Elongation at Break MD	580	%	5	30 %	ASTM D882
Elongation at Break TD	720	%	7.	20 %	ASTM D882
Secant Modulus MD - 1% Secant	54000	psi	3	70 MPa	ASTM D882
Secant Modulus TD - 1% Secant	58000	psi	4	00 MPa	ASTM D882
Dart Drop Impact	< 60	g	<	60 g	ASTM D1709A
Elmendorf Tear Strength MD	30	g		30 g	ASTM D1922
Elmendorf Tear Strength TD	110	9	1	10 g	ASTM D1922
Puncture Force	6	lbf		28 N	ExxonMobil Method
Puncture Energy	9.9	in·lb	1	.1 J	ExxonMobil Method
Optical Properties	Typical Value	(English)	Typical Val	ue (SI)	Test Based On
Gloss (45°)	67			57	ASTM D2457
Haze	8.6	%	8	3.6 %	ASTM D1003

Legal Statement

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.

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.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Effective Date: 06/03/2020 ExxonMobil Page: 1 of 2



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Processing Statement

Film (0.8 mil / 20 micron) made from Exceed^{M} Tough m 4536.PA on a 3.5 inch cast film line with a 5.5 inch melt curtain, 80°F (27°C) chill roll temperature at a 750 ft/min take-off speed and a melt temperature between 530-590°F (277-310°C).

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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