

Product Datasheet



Exceed™ 4536PA Cast

Performance Polymer

Product Description

Exceed 4536PA is an ethylene 1-hexene copolymer. Films made from Exceed 4536PA 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 4536PA.

General

Availability ¹	- Africa & Middle East - Asia Pacific - Europe
Additive	- Antiblock: No - Slip: No - Thermal Stabilizer: Yes
Applications	- Artificial grass - Diaper Backsheet - Cast Film - Hygiene film
Revision Date	06/03/2020

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.936 g/cm ³	0.936 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	4.5 g/10 min	4.5 g/10 min	ASTM D1238
Peak Melting Temperature	257 °F	125 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	244 °F	118 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	2100 psi	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 %	580 %	ASTM D882
Elongation at Break TD	720 %	720 %	ASTM D882
Secant Modulus MD - 1% Secant	54000 psi	370 MPa	ASTM D882
Secant Modulus TD - 1% Secant	58000 psi	400 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 g	110 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 Value (SI)	Test Based On
Gloss (45°)	67	67	ASTM D2457
Haze	8.6 %	8.6 %	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).

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Processing Statement

Film (0.8 mil / 20 micron) made from Exceed 4536PA 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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