

Exceed™ mPE

Exceed 3518 Series

Product Description

Exceed 3518 Series grades are metallocene ethylene-hexene copolymers. Films made of Exceed 3518 Series grades have outstanding tensile, impact and puncture resistance properties. Furthermore, they are fully stabilised for cast mono and multi layer film production.

General

Availability ¹	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Exceed 3518PA: Antiblock: No; Heat Stabilizer: Yes; Slip: No • Exceed 3518CB: Antiblock: No; Heat Stabilizer: Yes; Slip: No		
Applications	• Cast film • Cast Stretch Film	• Diaper Backsheet • Food packaging	• Hygiene film • Personal Care
Revision Date	• 10/2008		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Index (190°C/2.16 kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Density	0.918 g/cm ³	0.918 g/cm ³	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break MD	12500 psi	86.2 MPa	ASTM D882
Tensile Strength at Break TD	8000 psi	55.2 MPa	ASTM D882
Elongation at Break MD	500 %	500 %	ASTM D882
Elongation at Break TD	750 %	750 %	ASTM D882
Secant Modulus MD - 1% Secant	16000 psi	110 MPa	ASTM D882
Secant Modulus TD - 1% Secant	19000 psi	131 MPa	ASTM D882
Dart Drop Impact	180 g	180 g	ASTM D1709A
Elmendorf Tear Strength MD	160 g	160 g	ASTM D1922
Elmendorf Tear Strength TD	460 g	460 g	ASTM D1922
Puncture Force	20.2 lbf	90.0 N	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (60°)	14	14	ASTM D2457
Haze	2.0 %	2.0 %	ASTM D1003

Processing Statement

The film properties have been measured on a 20 µm (0.79 mil) thick cast film made of Exceed 3518CB. Film was aged at 60°C (140°F) for 48 hours before lab conditioning and testing. Film extruded on a cast film line at 230 m/min (755 ft/min) line speed and temperature setting of 280°C (536°F).

Foodlaw & Medical Use Statement

Exceed 3518 Series can - in principle - be used in food contact applications in various 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.

ExxonMobil Polyethylene is not intended for use in medical applications.

Typical properties: these are not to be construed as specifications.

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ExxonMobil Chemical Exceed™ mPE Exceed 3518 Series

Notes

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

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