

Technical Data Sheet



Ultrathene UE644006X01

Ethylene Vinyl Acetate

Product Description

Ultrathene UE644006X01 is an EVA copolymer with good toughness, flexibility, and clarity. Due to its combination of fractional melt index and high vinyl acetate content, customers select UE644006X01 for use in stretch hood and other films that require high flexibility, toughness, heat sealability, and clarity. Typical applications include stretch hood films, agricultural film, heavy duty films, laminating films as well as injection and blow molding.

Regulatory Status

For regulatory compliance information, see *Ultrathene UE644006X01* Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS). To obtain copies of these documents, please contact your LyondellBasell product safety representative.

Status	Developmental
Availability	North America
Application	Bags & Pouches; Can Liners; Clarity Film; Film Wrap; Heavy Duty Packaging; Lamination Film; Liner Film; Sealants; Specialty Film; Stretch Hood
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.70	g/10 min	0.70	g/10 min	ASTM D1238
Vinyl Acetate Content	18	%	18	%	LYB Method
Film					
Dart Drop Impact Strength, F50	560	g	560	g	ASTM D1709
Tensile Strength at Break					
MD	4910	psi	33.8	MPa	ASTM D882
TD	3560	psi	24.5	MPa	ASTM D882
Tensile Strength at Yield					
MD	735	psi	5.1	MPa	ASTM D882
TD	535	psi	3.7	MPa	ASTM D882
Tensile Elongation at Break					
MD	410	%	410	%	ASTM D882
TD	600	%	600	%	ASTM D882
Tensile Elongation at Yield					
MD	14	%	14	%	ASTM D882
TD	9	%	9	%	ASTM D882
1% Secant Modulus					
MD	6940	psi	47.8	MPa	ASTM D882
TD	7780	psi	53.6	MPa	ASTM D882
Elmendorf Tear Strength					
MD	77.5	g	77.5	g	ASTM D1922
TD	230.9	g	230.9	g	ASTM D1922
Optical					

LyondellBasell
Technical Data Sheet
Publication Date: 7/6/2026

Page 1 of 2

Ultrathene UE644006X01
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Haze	1.35 %	1.35 %	ASTM D1003
Gloss, (45°)	86	86	ASTM D2457

Notes

Data obtained from 1.5 mil (38 micron) film produced on a blown film line with a 4" (102 mm) die, 420 °F (216 °C) melt temperature, 2:1 BUR, 0.025" die gap at 50 lbs/hr.

These are typical property values not to be construed as specification limits.

Processing Techniques

The maximum recommended melt temperature for *Ultrathene* UE644006X01 is 450 °F (232 °C).

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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