

Technical Data Sheet

Ultrathene UE624000



Ethylene Vinyl Acetate

Product Description

Ultrathene UE624000 is an EVA copolymer with excellent flexibility and low temperature properties. UE624000 is selected by customers for use in medium to heavy gauge film applications as well as injection and blow molding.

Regulatory Status

For regulatory compliance information, see *Ultrathene UE624000* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Carpet Backing; Film Wrap; Lamination Film; Sealants; Specialty Film; Wire & Cable
Market	Flexible Packaging; Wire & Cable
Processing Method	Blown Film; Cast Film; Wire & Cable

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Equivalent Melt Index	2.1	g/10 min	2.1	g/10 min	ASTM D1238
Vinyl Acetate Content	18	%	18	%	LYB Method
Film					
Dart Drop Impact Strength, F50	600	g	600	g	ASTM D1709
Tensile Strength at Break					
MD	4900	psi	33.8	MPa	ASTM D882
TD	4600	psi	31.7	MPa	ASTM D882
Tensile Strength at Yield					
MD	670	psi	4.6	MPa	ASTM D882
TD	600	psi	4.1	MPa	ASTM D882
Tensile Elongation at Break					
MD	560	%	560	%	ASTM D882
TD	670	%	670	%	ASTM D882
Tensile Elongation at Yield					
MD	14	%	14	%	ASTM D882
TD	12	%	12	%	ASTM D882
1% Secant Modulus					
MD	7000	psi	48.3	MPa	ASTM D882
TD	7700	psi	53.1	MPa	ASTM D882
Elmendorf Tear Strength					
MD	115	g	115	g	ASTM D1922
TD	220	g	220	g	ASTM D1922
Hardness					
Shore Hardness, (Shore A)	91		91		ASTM D2240

Thermal			
Vicat Softening Temperature, (A1)	142 °F	61 °C	ASTM D1525
Low Temperature Brittleness	<-105 °F	<-76 °C	ASTM D746
Optical			
Haze	1.3 %	1.3 %	ASTM D1003
Gloss, (45°)	90	90	ASTM D2457
Additive			
Slip	None	None	LYB Method
Antiblock	None	None	LYB Method

Notes

Data obtained from 2.0 mil (51 micron) film produced on a blown film line with a 4" (102 mm) die, 370 °F (188 °C) melt temperature, 2.5:1 BUR, 0.025" die gap at 60 lbs/hr.

The equivalent melt index figure is correlated from Melt Flow Rates obtained with ASTM D1238.

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

Processing Techniques

The maximum recommended melt temperature for *Ultrathene* UE624000 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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Users should review the applicable Safety Data Sheet before handling the product.

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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

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- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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