

## 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 \(SDS\)](#).

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

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Equivalent Melt Index	2.1	g/10 min	2.1	g/10 min	ASTM D1238
Vinyl Acetate Content	18	%	18	%	LYB Method
<b>Film</b>					
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
<b>Hardness</b>					
Shore Hardness, (Shore A)	91		91		ASTM D2240
<b>Thermal</b>					
Vicat Softening Temperature, (A1)	142	°F	61	°C	ASTM D1525

Low Temperature Brittleness	<-105 °F	<-76 °C	ASTM D746
<b>Optical</b>			
Haze	1.3 %	1.3 %	ASTM D1003
Gloss, (45°)	90	90	ASTM D2457
<b>Additive</b>			
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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