

Technical Data Sheet

Ultrathene UE672102



Ethylene Vinyl Acetate

Product Description

Ultrathene UE672 is a series of EVA copolymer resins with good toughness, flexibility and clarity. Typical applications include laminating and heavy duty films as well as injection and blow molding.

Regulatory Status

For regulatory compliance information, see *Ultrathene UE672102* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Heavy Duty Packaging; Sealants
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film; Extrusion Blow Molding; Sheet and Profile Extrusion

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.45	g/10 min	0.45	g/10 min	ASTM D1238
Vinyl Acetate Content	13.5	%	13.5	%	LYB Method
Film					
Dart Drop Impact Strength, F50	570	g	570	g	ASTM D1709
Tensile Strength at Break					
MD	4400	psi	30.3	MPa	ASTM D882
TD	4300	psi	29.6	MPa	ASTM D882
Tensile Strength at Yield					
MD	960	psi	6.6	MPa	ASTM D882
TD	800	psi	5.5	MPa	ASTM D882
Tensile Elongation at Break					
MD	300	%	300	%	ASTM D882
TD	600	%	600	%	ASTM D882
Tensile Elongation at Yield					
MD	18	%	18	%	ASTM D882
TD	16	%	16	%	ASTM D882
1% Secant Modulus					
MD	13100	psi	90.3	MPa	ASTM D882
TD	13200	psi	91.0	MPa	ASTM D882
Elmendorf Tear Strength					
MD	90	g	90	g	ASTM D1922
TD	130	g	130	g	ASTM D1922
Oxygen Transmission Rate, (23 °C)	574	cm ³ /100 in ² /atm/day	8900	cm ³ /m ² /atm/day	ASTM D3985
Water Vapor Transmission Rate	5.5	g/100 in ² /day	85.3	g/m ² /day	ASTM F372
Thermal					
Vicat Softening Temperature	176	°F	80	°C	ASTM D1525

Low Temperature Brittleness	<-105 °F	<-76 °C	ASTM D746
Optical			
Haze	7.5 %	7.5 %	ASTM D1003
Gloss, (45°)	70	70	ASTM D2457
Additive			
Slip	2100 ppm	2100 ppm	LYB Method
Antiblock	6300 ppm	6300 ppm	LYB Method

Product	Melt Flow Rate(g/10 min)	Haze(%)	Gloss()	Slip(ppm)	Antiblock (ppm)
UE672006	0.50	1.5	88	None	None
UE672102	0.45	7.5	70	2100	6300
UE672317	0.45	13	62	None	15000

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* UE672102 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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