

Technical Data Sheet

Ultrathene UE672317

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.

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	13 %	13 %	ASTM D1003
Gloss, (45°)	62	62	ASTM D2457
Additive			
Slip	None	None	LYB Method
Antiblock	15000 ppm	15000 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.

