# Ultrathene® UE672102

### Ethylene Vinyl Acetate Copolymer

#### LyondellBasell Industries

#### Message:

ULTRATHENE UE672 is an EVA copolymer with excellent impact strength, heat sealability, good toughness and flexibility. Applications may include flexible packaging films for food and healthcare, as well as liquid and heavy duty packaging and pallet stretch film. UE672 contains antioxidant and high levels of slip and antiblock additives.

General Information			
Additive	Anti-caking agent (6300 ppm)		
	Sliding agent (2100 ppm)		
Features	Copolymer		
	Good flexibility		
	Definition, high		
	Good toughness		
	Compliance of Food Exposure		
Uses	Films		
	Laminate		
Agency Ratings	FDA 21 CFR 177.1350		
Forms	Particle		
Processing Method	Film extrusion		
	Blow molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	0.50	g/10 min	ASTM D1238
Vinyl Acetate Content	13.5	wt%	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	μm	
secant modulus			ASTM D882
1% secant, MD: 38 $\mu\text{m},$ blown film	90.3	MPa	ASTM D882
1% secant, TD: 38 $\mu m,$ blown film	91.0	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm, blown film	6.62	MPa	ASTM D882
TD: Yield, 38 µm, blown film	5.52	MPa	ASTM D882
MD: Broken, 38 µm, blown film	30.5	MPa	ASTM D882
TD: Broken, 38 µm, blown film	29.8	MPa	ASTM D882

Tensile Elongation			ASTM D882	
MD: Yield, 38 µm, blown film	18	%	ASTM D882	
TD: Yield, 38 µm, blown film	16	%	ASTM D882	
MD: Broken, 38 µm, blown film	300	%	ASTM D882	
TD: Broken, 38 µm, blown film	600	%	ASTM D882	
Dart Drop Impact (38 µm, Blown Film)	570	g	ASTM D4272	
Elmendorf Tear Strength			ASTM D1922	
MD: 38 µm, blown film	92	g	ASTM D1922	
TD: 38 µm, blown film	130	g	ASTM D1922	
Oxygen Transmission Rate (23°C, 38 μm, blown film)	8900	cm³/m²/24 hr	ASTM D3985	
Water Vapor Transmission Rate (38°C, 38 µm, blown film)	85	g/m²/24 hr	ASTM F372	
Thermal	Nominal Value	Unit	Test Method	
Brittleness Temperature	< -76.0	°C	ASTM D746	
Vicat Softening Temperature	80.0	°C	ASTM D1525	
Melting Temperature	94.4	°C	DSC	
Optical	Nominal Value	Unit	Test Method	
Gloss (45°, 38.1 µm, Blown Film)	88		ASTM D2457	
Haze (38.1 µm, Blown Film)	1.5	%	ASTM D1003	
Additional Information	Nominal Value		Test Method	
NAS <sup>1</sup> (38.1 µm)	78.0		ASTM D1746	
Physical properties measured on 1.5 mil film produced on a 2" BGE extruder w/4" Davis-Standard die, 25 mil die gap, 420 °F melt temperature @50 lb/hr, 2:1 BUR.				
Extrusion	Nominal Value	Unit		
Melt Temperature	< 232	°C		
NOTE				
1.	Blown Film			

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