

Ultrathene® UE672

Ethylene Vinyl Acetate Copolymer

LyondellBasell Industries

Message:

ULTRATHENE UE 672 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. UE 672 contains antioxidant and high levels of slip and antiblock additives.

General Information			
Additive	High smoothness High caking resistance Antioxidation		
Features	High smoothness High caking resistance Copolymer Antioxidation Impact resistance, good Good heat sealability Good flexibility Good toughness Compliance of Food Exposure		
Uses	Packaging Films Stretch winding Food packaging		
Agency Ratings	FDA 21 CFR 177.1350		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.45	g/10 min	ASTM D1238
Vinyl Acetate Content	12.5	wt%	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
secant modulus			ASTM D882
1% secant, MD: 38 µm	80.7	MPa	ASTM D882
1% secant, TD: 38 µm	88.9	MPa	ASTM D882
Tensile Strength			ASTM D882

MD: Yield, 38 μm	11.3	MPa	ASTM D882
TD: Yield, 38 μm	5.58	MPa	ASTM D882
MD: Fracture, 38 μm	38.7	MPa	ASTM D882
TD: Fracture, 38 μm	32.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield, 38 μm	59	%	ASTM D882
TD: Yield, 38 μm	10	%	ASTM D882
MD: Fracture, 38 μm	470	%	ASTM D882
TD: Fracture, 38 μm	650	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD : 38 μm	56	g	ASTM D1922
TD : 38 μm	150	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-76.0	°C	ASTM D746
Vicat Softening Temperature	80.0	°C	ASTM D1525
Melting Temperature	96.4	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.1 μm)	85		ASTM D2457
Clarity (38.1 μm)	82.0		ASTM D1746
Haze (38.1 μm)	1.2	%	ASTM D1003
Additional Information			
Moisture Vapor Transmission Rate, ASTM F372, 100°F, 1.5 mil: 3.70 g/100 in ² /day Oxygen Transmission Rate, ASTM D3985, 23°C, 1.5 mil: 5670 cc/m ² /24 hrs Dart Drop Impact Strength, ASTM D4272, F50, 1.5 mil: 481 g			
Extrusion	Nominal Value	Unit	
Melt Temperature	221	°C	
Extrusion instructions			

Maximum recommended melt temperature: 430°F (221°C).

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

