Ultrathene® UE672317

Ethylene Vinyl Acetate Copolymer

LyondellBasell Industries

Message:

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.

General Information	
Additive	Anti-caking agent (2%)
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 µm, blown film	90.3	MPa	ASTM D882
1% secant, TD: 38 µm, 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	$cm^3/m^2/24$ hr	ASTM D3985
Water Vapor Transmission Rate (38°C, 38 µm, blown film)	85	$g/m^2/24$ 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 [1] (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		

Recommended distributors for this material

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