

Ultrathene® UE637000

Ethylene Vinyl Acetate Copolymer

LyondellBasell Industries

Message:

ULTRATHENE UE 637-000 is an EVA copolymer with good toughness, flexibility and clarity. Applications include laminating and heavy duty films as well as injection and blow molding. UE 637-000 contains no additives.

General Information	
Features	Good flexibility Definition, high Good toughness Compliance of Food Exposure
Uses	Films Laminate
Agency Ratings	FDA 21 CFR 175.105 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)	3.2	g/10 min	ASTM D1238
Vinyl Acetate Content	9.0	wt%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A	94		ASTM D2240
Shaw D	33		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	13.8	MPa	ASTM D638
Tensile Elongation ² (Break)	700	%	ASTM D638
Flexural Modulus	79.3	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD	84.8	MPa	ASTM D882
1% secant, TD	91.0	MPa	ASTM D882
Tensile Strength			ASTM D882

MD: Yield	6.23	MPa	ASTM D882
TD: Yield	5.81	MPa	ASTM D882
MD: Fracture	25.9	MPa	ASTM D882
TD: Fracture	18.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	350	%	ASTM D882
TD: Fracture	500	%	ASTM D882
Dart Drop Impact (51 μm)	400	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-76.0	°C	ASTM D746
Vicat Softening Temperature	80.0	°C	ASTM D1525
Additional Information			
Elongation at Break, ASTM D638, Type IV, 20 in/min: >700%			
Extrusion	Nominal Value	Unit	
Melt Temperature	221	°C	
Extrusion instructions			
Maximum recommended melt temperature: 430°F (221°C).			
NOTE			
1.	Type 4, 510mm/min		
2.	Type 4, 510mm/min		

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