

LyondellBasell Ultrathene® UE672102 Ethylene Vinyl Acetate Copolymer, Film Grade

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

Material Notes:

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. Regulatory Status: UE672 meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1350. This regulation allows for the use of this material in "...articles or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for further information. Processing Techniques: The maximum recommended melt temperature for UE672 is 430°F (221°C). Specific recommendations for processing UE672 can be made only when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Ultrathene-UE672102-Ethylene-Vinyl-Acetate-Copolymer-Film-Grade.php

Physical Properties	Metric	English	Comments
Water Vapor Transmission	85.3 g/m ² /day	5.49 g/100 in ² /day	ASTM F372
Oxygen Transmission Rate	8900 cc/m ² /day	573 cc/100 in ² /day	ASTM D3985
Vinyl Acetate Content	13.5 %	13.5 %	
Thickness	38.1 microns	1.50 mil	
Melt Flow	0.50 g/10 min	0.50 g/10 min	ASTM D1238
Antiblock Level	6300 ppm	6300 ppm	
Slip Level	2100 ppm	2100 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	6.62 MPa	960 psi	ASTM D882
Film Tensile Strength at Yield, TD	5.52 MPa	800 psi	ASTM D882
Film Elongation at Break, MD	300 %	300 %	ASTM D882
Film Elongation at Break, TD	600 %	600 %	ASTM D882
Film Elongation at Yield, MD	18 %	18 %	ASTM D882
Film Elongation at Yield, TD	16 %	16 %	ASTM D882
Elmendorf Tear Strength MD	92 g	92 g	ASTM D1922
Elmendorf Tear Strength TD	128 g	128 g	ASTM D1922

Mechanical Properties	Metric	English	Comments
Dart Drop	15.0 g/micron	380 g/mil	ASTM D4272
Film Tensile Strength at Break, MD	30.5 MPa	4430 psi	ASTM D882
Film Tensile Strength at Break, TD	29.8 MPa	4320 psi	ASTM D882
1% Secant Modulus, MD	90.3 MPa	13100 psi	ASTM D882
1% Secant Modulus, TD	91.0 MPa	13200 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	80.0 Â°C	176 Â°F	ASTM D1525
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	1.5 %	1.5 %	ASTM D1003
Gloss	88 %	88 %	45Â°; ASTM D2457
Transmission, Visible	78 %	78 %	NAS; ASTM D1746

Processing Properties	Metric	English	Comments
Melt Temperature	216 Â°C	420 Â°F	
Die Opening	0.0635 cm	0.0250 in	
Blow-up Ratio (BUR)	2.0	2.0	

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