LyondellBasell UltratheneÂ® UE637000 Ethylene Vinyl Acetate Copolymer, Film Extrusion Grade

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

Material Notes:

ULTRATHENE UE637000 is an EVA copolymer with good toughness, flexibility and clarity. Applications include laminating and heavy duty films as well as injection and blow molding. UE637000 contains no additives.Regulatory Status: The basic copolymer UE637000 meets the requirements of the Food and Drug Administration regulations 21 CFR 177.1350 and 21 CFR 175.105. These regulations (respectively) allow for the use of this material as articles or components of articles which are "...intended for use in producing, manufacturing, packing, processing, preparing, treating, packaging, transporting or holding food..." and as an adhesive which "...may be safely used as components of articles intended for use in packaging, transporting or holding food." Specific limitations or conditions of use may apply. Please contact your Equistar sales representative for more information regarding the suitability of specific products for specific applications. Processing Techniques: The maximum recommended melt temperature for UE637000 is 430Â°F (221Â°C). Specific recommendations for processing UE637000 can only be made 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-UE637000-Ethylene-Vinyl-Acetate-Copolymer-Film-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Vinyl Acetate Content	9.0 %	9.0 %	
Thickness	50.8 microns	2.00 mil	
Melt Flow	3.2 g/10 min	3.2 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	94	94	ASTM D2240
Film Tensile Strength at Yield, MD	6.23 MPa	904 psi	ASTM D882
Film Tensile Strength at Yield, TD	5.81 MPa	843 psi	ASTM D882
Film Elongation at Break, MD	350 %	350 %	ASTM D882
Film Elongation at Break, TD	500 %	500 %	ASTM D882
Film Elongation at Yield, MD	9.0 %	9.0 %	ASTM D882
Film Elongation at Yield, TD	11 %	11 %	ASTM D882
Dart Drop	7.95 g/micron	202 g/mil	F₅₀; ASTM D4272
Film Tensile Strength at Break, MD	25.9 MPa	3750 psi	ASTM D882
Film Tensile Strength at Break, TD	18.9 MPa	2740 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
1% Secant Modulus, MD	84.8 MPa	12300 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

Processing Properties	Metric	English	Comments
Melt Temperature	<= 221 Â°C	<= 430 Â°F	

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