

Technical Data Sheet

Ultrathene UE635000



Ethylene Vinyl Acetate

Product Description

Ultrathene UE635000 is an ethylene vinyl acetate copolymer selected by customers for extrusion coatings on cellophane, polypropylene and polyester. UE635000 is also selected by customers for use in special coextruded substrate coating applications, yielding improved heat stability for snack food packaging.

Regulatory Status

For regulatory compliance information, see *Ultrathene* UE635000 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial
Availability	North America
Application	Sealants; Wire & Cable
Market	Flexible Packaging; Wire & Cable
Processing Method	Blown Film; Cast Film; Extrusion Coating; Wire & Cable

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Equivalent Melt Index	10	g/10 min	10	g/10 min	ASTM D1238
Vinyl Acetate Content	9	%	9	%	LYB Method
Mechanical					
Flexural Modulus, (1% Secant)	21000	psi	145	MPa	ASTM D790
Tensile Strength at Break	1700	psi	11.7	MPa	ASTM D638
Tensile Strength at Yield	990	psi	6.8	MPa	ASTM D638
Tensile Elongation at Break	750	%	750	%	ASTM D638
Tensile Elongation at Yield	30	%	30	%	ASTM D638
Film					
Dart Drop Impact Strength, F50 Film gauge at 2 mils.	260	g	260	g	ASTM D1709
Tensile Strength at Break					
MD	2300	psi	15.9	MPa	ASTM D882
TD	2000	psi	13.8	MPa	ASTM D882
Tensile Strength at Yield					
MD	800	psi	5.5	MPa	ASTM D882
TD	750	psi	5.2	MPa	ASTM D882
Tensile Elongation at Break					
MD	370	%	370	%	ASTM D882
TD	510	%	510	%	ASTM D882
Tensile Elongation at Yield					
MD	13	%	13	%	ASTM D882
TD	14	%	14	%	ASTM D882
1% Secant Modulus					
MD	13200	psi	91.0	MPa	ASTM D882
TD	12900	psi	88.9	MPa	ASTM D882

Elmendorf Tear Strength			
MD	230 g	230 g	ASTM D1922
TD	210 g	210 g	ASTM D1922
Thermal			
Vicat Softening Temperature	163 °F	73 °C	ASTM D1525
Low Temperature Brittleness	<-105 °F	<-76 °C	ASTM D746
Optical			
Haze	2 %	2 %	ASTM D1003
Gloss, (45°)	87	87	ASTM D2457
Additive			
Slip	None	None	LYB Method
Antiblock	None	None	LYB Method

Notes

The equivalent melt index figure is correlated from Melt Flow Rates obtained with ASTM D1238.

These are typical property values not to be construed as specification limits.

Processing Techniques

The maximum recommended melt temperature for *Ultrathene* UE635000 is 450 °F (232 °C).

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.