

Product Datasheet



Escorene™ Ultra LD 720 Series

Ethylene Vinyl Acetate Copolymer Resin

Product Description

Escorene™ Ultra LD 720 resins are high vinyl acetate copolymer specialty film resins designed for applications requiring outstanding heat sealability, along with excellent strength properties and toughness. These resins are also used in specialized molding applications.

General

Availability ¹	- Asia Pacific - Latin America - North America
Additive	- LD 720.AW: Antiblock: 10000 ppm; Slip: 7050 ppm; Thermal Stabilizer: Yes - LD 720.NM: Antiblock: No; Slip: No; Thermal Stabilizer: Yes
Applications	- Heat Seal Layer - Injection Molding - Shoe Soles
Revision Date	11/29/2018

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.947 g/cm ³	0.947 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	1.6 g/10 min	1.6 g/10 min	ASTM D1238
Vinyl Acetate Content	18.5 wt%	18.5 wt%	ExxonMobil Method
Peak Melting Temperature	187 °F	86 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	144 °F	62 °C	ASTM D1525

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break MD	3900 psi	27 MPa	ASTM D882
Tensile Strength at Break TD	4000 psi	28 MPa	ASTM D882
Elongation at Break MD	210 %	210 %	ASTM D882
Elongation at Break TD	640 %	640 %	ASTM D882
Secant Modulus MD - 1% Secant	8900 psi	61 MPa	ASTM D882
Secant Modulus TD - 1% Secant	9800 psi	68 MPa	ASTM D882
Dart Drop Impact	400 g	400 g	ASTM D1709A
Elmendorf Tear Strength MD	50 g	50 g	ASTM D1922
Elmendorf Tear Strength TD	80 g	80 g	ASTM D1922
Puncture Force	6 lbf	25 N	ExxonMobil Method
Puncture Energy	6.0 in-lb	0.68 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	43	43	ASTM D2457
Haze	> 30 %	> 30 %	ASTM D1003

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Processing Statement

Film (1.5 mil / 38 micron) made from LD 720.01 on a 2.5 inch blown film line with a 6 inch die and 30 mil die gap at a 2.5:1 blow-up ratio and melt temperature of 320-340°F (160-171°C).

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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ExxonMobil**Escorene™ Ultra LD 720 Series**
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