

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

Additive	- LD 720.62: Antiblock: No; Slip: No; Thermal Stabilizer: Yes - LD 720.AW: Antiblock: 10000 ppm; Slip: 7050 ppm; Thermal Stabilizer: Yes - LD 720.NM: Antiblock: No; Slip: No; Thermal Stabilizer: Yes - LD 720.01: Antiblock: 10000 ppm; Slip: 7050 ppm; Thermal Stabilizer: Yes		
Applications	Heat Seal Layer	Injection Molding	Shoe Soles

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

