

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 | <ul style="list-style-type: none"> Asia Pacific Latin America North America |
| Additive | <ul style="list-style-type: none"> LD 720.62: Antiblock: No; Slip: No; Thermal Stabilizer: Yes LD 720.01: Antiblock: 10000 ppm; Slip: 7050 ppm; Thermal Stabilizer: Yes |
| Applications | <ul style="list-style-type: none"> Heat Seal Layer Injection Molding Shoe Soles |
| Revision Date | 03/01/2010 |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.941 g/cm ³ | 0.941 g/cm ³ | ExxonMobil Method |
| 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 | 180 % | 180 % | ASTM D882 |
| Elongation at Break TD | 650 % | 650 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 9500 psi | 65 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 10000 psi | 71 MPa | ASTM D882 |
| Dart Drop Impact | 370 g | 370 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 40 g | 40 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 80 g | 80 g | ASTM D1922 |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 49 | 49 | ASTM D2457 |
| Haze | 28 % | 28 % | ASTM D1003 |

Legal Statement

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

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

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 334-351°F (168-177°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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