

Eastman Embrace LV Copolyester for Extruded/Cast Film

Category : Polymer , Film , Thermoplastic , Polyester, TP

Material Notes:

Applications: Beverage packaging Dairy packaging Food packaging Juice packaging Pharmaceutical packaging Soft drink packaging **Key Attributes:** Customizable shrink curve Eye-catching 360° graphic capability Lower Shrink force than Embrace Great clarity and high gloss Super-high print definition Ultimate shrinkage of >70% **Product Description:** LV stands for LOW shrink force and VERSATILE shrink curve. Under normal extruder manufacturing conditions, this product maintains the same shrink characteristics expected from Eastman Embrace but has a 30% lower shrink force. Living up to its name, it demonstrates its versatility with its ability to be produced with up to a 40% reduction in shrink force versus the first generation Eastman Embrace copolyester with a shrink curve that is similar to both PVC and OPS while still maintaining ultimate shrinkage well above 70%. This versatility, not before possible with Eastman Embrace, is achieved by making changes to the extruders manufacturing process. Eastman Embrace LV emulates all visually satisfying attributes expected from the current Eastman Embrace such as high gloss and clarity. This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®. This Product has been CRADLE TO CRADLE CERTIFIEDcm Silver. Information provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Embrace-LV-Copolyester-for-ExtrudedCast-Film.php

| Physical Properties | Metric | English | Comments |
|--------------------------|---|---|--------------------------|
| Density | 1.30 g/cc | 0.0470 lb/in ³ | ASTM D1505 |
| Water Vapor Transmission | 6.70 g/m ² /day | 0.431 g/100 in ² /day | ASTM F1249 |
| Oxygen Transmission | 7.40 cc-mm/m ² -24hr-atm @Temperature 30.0 °C | 18.8 cc-mil/100 in ² -24hr-atm @Temperature 86.0 °F | ASTM D3985 |
| Viscosity Measurement | 0.70 | 0.70 | Inherent; EMN-A-AC-G-V-1 |
| Thickness | 250 microns | 9.84 mil | |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|----------|-------------|-----------------------------|
| Film Elongation at Break, MD | 4.0 % | 4.0 % | ASTM D882 |
| Film Elongation at Break, TD | 4.0 % | 4.0 % | ASTM D882 |
| Tensile Modulus | 1.90 GPa | 276 ksi | Film M.D.; ASTM D882 |
| | 1.90 GPa | 276 ksi | Film T.D.; ASTM D882 |
| Tear Strength, Total | 6.90 N | 1.55 lb (f) | M.D., Elmendorf; ASTM D1922 |
| | 8.50 N | 1.91 lb (f) | T.D., Elmendorf; ASTM D1922 |
| | 47.0 N | 10.6 lb (f) | M.D., PPT; ASTM D2582 |
| | 62.0 N | 13.9 lb (f) | T.D., PPT; ASTM D2582 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|-----------|----------|---|
| Tear Strength | 34.0 kN/m | 194 pli | M.D., Split Tear @ 254 mm/min; ASTM D1938 |
| | 37.0 kN/m | 211 pli | T.D., Split Tear @ 254 mm/min; ASTM D1938 |
| Film Tensile Strength at Break, MD | 51.0 MPa | 7400 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 50.0 MPa | 7250 psi | ASTM D882 |

| Thermal Properties | Metric | English | Comments |
|---------------------------|---------|---------|------------|
| Vicat Softening Point | 69.0 °C | 156 °F | ASTM D1525 |
| Glass Transition Temp, Tg | 69.0 °C | 156 °F | ASTM D1525 |

| Optical Properties | Metric | English | Comments |
|-----------------------|-----------------------------|-------------------------------|--------------------------------|
| Haze | 1.4 % | 1.4 % | ASTM D1003 |
| Gloss | 161 % | 161 % | at 60°; ASTM D2457 |
| Transmission, Visible | 89 % @Thickness 0.250 mm | 89 % @Thickness 0.00984 in | Regular, Film; ASTM D1003 |
| | 92 % @Thickness 0.250 mm | 92 % @Thickness 0.00984 in | Total, Film; ASTM D1003 |
| | 99 % @Thickness 0.250 mm | 99 % @Thickness 0.00984 in | Transparency, Film; ASTM D1746 |

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