

## Eastman Eastman Embrace Copolyester for Extrusion/Cast Film

Category : Polymer , Film , Thermoplastic , Polyester, TP

### Material Notes:

Applications:Flexible packagingIV containersLabels to fit high contour containersShrink packagingWrap around designKey

Attributes:Excellent clarityExcellent printabilityGood chemical resistanceGood gloss and sparkleGreater than 80% ultimate shrinkageHigh

shrink forceShrinks to fit contour bottlesSuper-high print definitionProduct Description: Eastman Embrace copolyester is shrink film for dairy, water, juice, liquor, and sports and soft drink beverage packaging. Eastman Embrace copolyester provides excellent clarity, printability, and toughness, enabling marketers to increase shelf visibility, presence, and appeal for their products. With ultimate shrinkage of over 80%, Eastman Embrace copolyester is the ideal label material for marketers looking to differentiate their products in the competitive beverage market. 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-Eastman-Embrace-Copolyester-for-ExtrusionCast-Film.php](http://www.lookpolymers.com/polymer_Eastman-Eastman-Embrace-Copolyester-for-ExtrusionCast-Film.php)

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ASTM D1505
Water Vapor Transmission	7.60 g/m <sup>2</sup> /day	0.489 g/100 in <sup>2</sup> /day	ASTM F1249
Oxygen Transmission Rate	23.0 cc/m <sup>2</sup> /day @Pressure 0.101 MPa, Temperature 30.0 °C	1.48 cc/100 in <sup>2</sup> /day @Pressure 14.7 psi, Temperature 86.0 °F	68% RH; ASTM F1249
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	5.0 %	5.0 %	ASTM D882
Film Elongation at Break, TD	5.0 %	5.0 %	ASTM D882
Tensile Modulus	1.56 GPa	226 ksi	Film T.D.; ASTM D882
	1.57 GPa	228 ksi	Film M.D.; ASTM D882
Tear Strength, Total	7.50 N	1.69 lb (f)	M.D., Elmendorf; ASTM D1922
	7.50 N	1.69 lb (f)	T.D., Elmendorf; ASTM D1922
	61.0 N	13.7 lb (f)	M.D., PPT; ASTM D2582
	66.0 N	14.8 lb (f)	T.D., PPT; ASTM D2582
Tear Strength	61.0 kN/m	348 pli	M.D., Split Tear @ 254 mm/min; ASTM D1938

Mechanical Properties	Metric	English	Comments
	0.10 MN/m	500 psi	bar @ 254 mm/min; ASTM D1938
Dart Drop Test	355 g	0.783 lb	ASTM D1709A
Film Tensile Strength at Break, MD	53.0 MPa	7690 psi	ASTM D882
Film Tensile Strength at Break, TD	53.0 MPa	7690 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	74.0 °C	165 °F	ASTM D1525
Glass Transition Temp, Tg	71.0 °C	160 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	0.70 %	0.70 %	ASTM D1003
Gloss	166 %	166 %	at 60°; ASTM D2457
Transmission, Visible	67 % @Thickness 0.250 mm	67 % @Thickness 0.00984 in	Transparency, Film; ASTM D1746
	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

## Contact Songhan Plastic Technology Co.,Ltd.

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