

Eastman Eastman Embrace Copolyester for Shrink 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-Shrink-Film.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D1505
Water Vapor Transmission	20.0 g/m ² /day	1.29 g/100 in ² /day	ASTM F1249
Oxygen Transmission Rate	71.0 cc/m ² /day @Pressure 0.101 MPa, Temperature 30.0 °C	4.57 cc/100 in ² /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	50.0 microns	1.97 mil	
Surface Tension	9.0 dynes/cm	9.0 dynes/cm	Harmonic Mean - Polar
	38 dynes/cm	38 dynes/cm	Harmonic Mean - Dispersive
	47 dynes/cm	47 dynes/cm	Harmonic Mean - Total

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	265 %	265 %	ASTM D882
Film Elongation at Break, TD	34 %	34 %	ASTM D882
Tensile Modulus	1.80 GPa	261 ksi	Film M.D.; ASTM D882
	7.25 GPa	1050 ksi	Film T.D.; ASTM D882
Tear Strength, Total	0.120 N	0.0270 lb (f)	T.D., Elmendorf; ASTM D1922
	1.20 N	0.270 lb (f)	M.D., Elmendorf; ASTM D1922

<small>Dart Drop Test</small> Mechanical Properties	228 g Metric	0.503 lb English	ASTM D1709A Comments
Film Tensile Strength at Break, MD	42.0 MPa	6090 psi	ASTM D882
Film Tensile Strength at Break, TD	290 MPa	42100 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	71.0 °C	160 °F	ASTM D1525
Shrinkage	80 % @Temperature 90.0 °C	80 % @Temperature 194 °F	Ultimate

Optical Properties	Metric	English	Comments
Haze	4.9 %	4.9 %	ASTM D1003
Gloss	139 %	139 %	at 60°; ASTM D2457
Transmission, Visible	85 % @Thickness 0.0500 mm	85 % @Thickness 0.00197 in	Transparency, Film; ASTM D1746
	86 % @Thickness 0.0500 mm	86 % @Thickness 0.00197 in	Regular, Film; ASTM D1003
	92 % @Thickness 0.0500 mm	92 % @Thickness 0.00197 in	Total, Film; ASTM D1003

Descriptive Properties	Value	Comments
Color	0.02	a*
	0.37	b*
	95.9	L*

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