Embrace[™] HY1000 Compound

Copolyester

Eastman Chemical Company

Message:

Eastman Embrace[™] High Yield is combined with Eastman Embrace[™] LV copolyester to create a white opaque microvoided shrinkable film. Embrace High Yield has a density below 1.0 g/cc with a high ultimate shrinkage up to 70%. Benefits of Embrace High Yield such as UV and visible light protection, and optimum MD growth that is ~30% less dense than other copolyesters, enabling more film per weight, offer a robust packaging solution that is appealing to the consumer and functionable for the brand owner. Unique shelf appeal, marketing benefits of full body shrink film labels along with the ability to shrink around highly contoured containers makes Eastman Embrace HY[™] copolyester another new and fresh idea from Eastman Chemical Company that will further differentiate your product.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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General Information			
Features	Excellent Printability		
	Good UV Resistance		
	High Shrinkage		
	Low Density		
	Soft		
Uses	Cosmetic Packaging		
	Film		
	Food Packaging		
	Labels		
	Packaging		
	Pharmaceutical Packaging		
	Shrink Wrap		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm³	ASTM D1505
Color ¹			ASTM E1331
а	-0.17		
b	-0.26		
L	93		
Opacity	91		
Shrinkage ²			Internal Method
MD : 95°C	-1.0	%	

TD : 95°C	73	%	
Surface Tension ³			Internal Method
Harmonic Mean, Dispersive : 23°C	36	mN/m	
Harmonic Mean, Total : 23°C	36	mN/m	
Carbon Dioxide Permeability (30°C, 63.5	13	$cm^3 \cdot mm/m^2/atm/24$ hr	
	45		AS1WI D1434
	0.00	0/	
300 nm	0.20	%	
325 nm	6.0	%	
350 nm	9.8	%	
375 nm	12	%	
400 nm	13	%	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	64	μm	
Secant Modulus			ASTM D882
MD : 64 µm	850	MPa	
TD : 64 μm	3000	MPa	
Tensile Strength			ASTM D882
MD : Break, 64 μm	23.0	MPa	
TD : Break, 64 μm	117	MPa	
Tensile Elongation			ASTM D882
MD : Break, 64 µm	380	%	
TD : Break, 64 µm	22	%	
Oxygen Permeability (30°C, 64 μm, 68% RH)	10	cm ³ · mm/m ² /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (38°C, 100% RH, 64 µm)	38	g/m²/24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ⁶	77.0	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 63.5 μm)	8		ASTM D2457
Yellowness Index (63.5 mm)	1.7	YI	ASTM E313
NOTE			
1.	CIELAB, D65, 10°		
2.	10 sec		
3.	ECRL-A-PA-G-TEN-3-2		
4.	68% RH		
5.	Integrating sphere, Embrace Copolyester + 25% High Yield HY1000 Compound		
6.	EMNR-A-AS-G-DTP-1-1, 2nd heating scan		

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