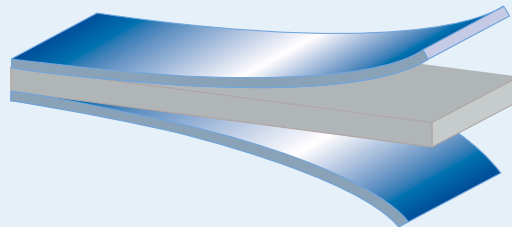


Encore GLT18b70

Technical Data Sheet



GLT b70 - Shrink, Clear Biaxially Oriented Polypropylene Film with Bio-Sourced Renewable PP Resin for Tobacco Overwrap Applications.



- _____ High Slip Sealable Layer
- _____ Oriented Polypropylene Blend
- _____ Low Slip Sealable Layer

Technical Features

- Excellent sparkling appearance
- Superior controlled, balanced shrinkage
- Enhanced machine performance
- Satisfies requirements for vending blocking applications
- Excellent moisture and flavour barrier
- Differential slip properties for tight wraps
- Overcomes film relaxation problems
- Resistant to solvent attack

Sustainable Features

- 70% certified renewable content
- ISCC certified via mass balance
- Contributes to reducing carbon footprint and the use of fossil resources

Applications

GLT b70 is suitable for use in the tobacco industry for both high speed overwrapping of unit packs and display outers where exceptional pack appearance and wrap tightness are required.



Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	GLT b70
Thickness	Innovia Films test		micron	18
			gauge	72
Yield	Innovia Films test		m ² /kg	61.0
			in ² /lb	42900
			g/m ²	16.4
Permeability to: Water vapour	ASTM F 1249	38°C 90% RH 100°F 90% RH	g/m ² .24 hrs	6.8
			g/100in ² . 24 hrs	0.44
Oxygen	ASTM F 1927	23°C 0% RH 73°F 0% RH	cc/m ² .24 hrs	1800
			cc/100in ² . 24 hrs	116
Optical: Gloss	ASTM D 2457	20°	units	130
Haze (wide angle)	ASTM D 1003	2.5°	%	1.3
Coefficient of friction (out to out)	ASTM D 1894	Static/ Dynamic		0.40
				0.30
Blocking	Innovia Films test	70°C (158°F) / 200g / 2hrs	N	6
Tensile strength	ASTM D 882	Strain rate 50% / min	MN/m ²	MD 170
				TD 210
			lb/in ²	MD 24700
				TD 30500
Elongation at break	ASTM D 882	Strain rate 50% / min	%	MD 120
				TD 80
Elasticity modulus (1% secant)	ASTM D 882	Strain rate 10% / min	MN/m ²	MD 3000
				TD 3600
			lb/in ²	MD 435100
				TD 522100
Sealing range	Innovia Films test	2 secs; 0.10MN/m ² 2 secs; 15 psi	°C	110-140
			°F	230-285
Seal strength	Innovia Films test	109°C; 2 secs; 0.10MN/m ² 225°F; 2 secs; 15 psi	g(f)/25mm/ in	480
Shrinkage	Innovia Films test	60 secs at 80°C (176°F) 60 secs at 120°C (248°F)	%	MD 3.7
				TD 3.5
				MD 7.0
				TD 11.0

MD Machine Direction TD Transverse Direction

All properties are tested under standard laboratory conditions: 23 ± 2°C, 50 ± 5% RH, (73 ± 4F, 50 ± 5% RH), unless otherwise stated. Where relevant, tests are based on international testing standards. Ref GLT b70 - 1 of 2 - 0521

Encore GLT18b70

Technical Data Sheet



Reel Specifications

Nominal Reel Diameters

Film	2x Length (metres)
GLT18r70	4200

Film	2x Length (feet)
GLT72r70	13780

Outside Diameter	2x	4x	6x	8x	12x
For 77mm / 3in core	330mm 13in	-	-	-	-

Film Winding

Propafilm™ GLT b70 has differential slip properties for maximum wrap tightness. When overwrapping, it is advised to use the low slip surface on the inside of the packs. The low slip surface is identified by a symbol on the reel label as below.

Low Slip/Treated Surface	Ordering Code	Label Symbol
Inside	I	Low slip/treat >>
Outside	O	Low slip/treat <<

*For printing application consult an Innovia Films Technical Representative

Film Storage and Handling

No special conditions are required for the storage of Encore GLT b70 but it is recommended that dry conditions at temperatures below 30°C (86°F) are employed to minimise any deterioration of surface discharge treatment level. Encore GLT b70 is suitable for use for 6 months from the date of delivery and stocks should be used in rotation. Films should be allowed to reach operating room temperatures for 24 hours before use.

Food Contact

Please contact your local Innovia Films Sales Representative for guidance.

Health & Safety Guidelines

For Health & Safety information, please refer to literature reference B190.

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