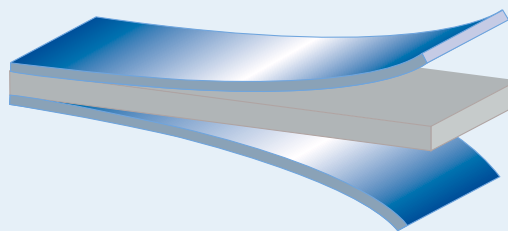


Encore GLT18r30/ GLT20r30

Technical Data Sheet



GLT r30 - Shrink, Clear Biaxially Oriented Polypropylene Film with Chemically Recycled Plastic Waste Sourced PP Resin for Tobacco Overwrap Applications.



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

Technical Features

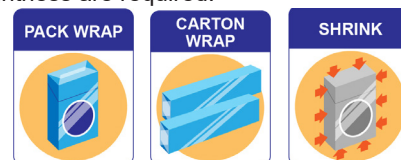
- Excellent sparkling appearance
- Superior controlled, balanced shrinkage
- Enhanced machine performance
- Satisfies requirements for vending blocking applications
- Excellent moisture and flavour barrier
- Differential slip properties for tight wraps
- Overcomes film relaxation problems
- Resistant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

Sustainable Features

- 30% recycled content
- ISCC certified on a mass balance basis
- Contributing to a circular economy
- Contributes to reducing the use of fossil resources

Applications

GLT r30 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 r30	
				18	20
Thickness	Innovia Films test		micron	18	20
			gauge	72	80
Yield	Innovia Films test		m ² /kg	61.0	54.9
			in ² /lb	42900	38600
			g/m ²	16.4	18.2
Permeability to: Water vapour	ASTM F 1249	38°C 90% RH 100°F 90% RH	g/m ² .24 hrs	6.8	6.0
			g/100in ² . 24 hrs	0.44	0.39
Oxygen	ASTM F 1927	23°C 0% RH 73°F 0% RH	cc/m ² .24 hrs	1800	1500
			cc/100in ² . 24 hrs	116	97
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.

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Encore GLT18r30/GLT20r30

Technical Data Sheet



Reel Specifications

Nominal Reel Diameters

Film	2x Length (metres)
GLT18r30	4200
GLT20r30	3800

Film	2x Length (feet)
GLT72r30	13780
GLT80r30	12467

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

Film Winding

Propafilm™ GLT r30 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 r30 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 r30 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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