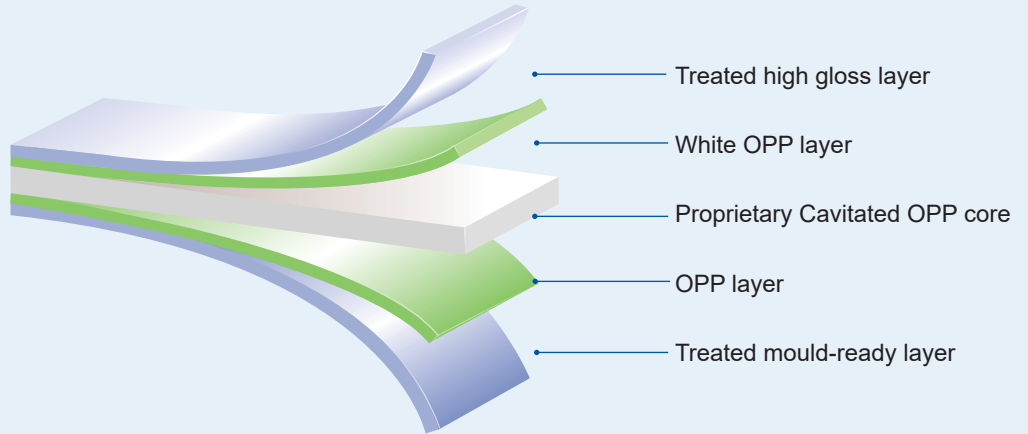


RayoForm™ ELR

Technical Data Sheet

ELR - White opaque, one-side matte, one side gloss, coextruded OPP film.



Features

- Very high gloss after moulding
- High stiffness gives opportunity to replace 80 micron CPP
- Yield advantages vs solid white films
- Printable by all sheet and roll-fed processes

Application

- Injection in-mould labels for large PP or PE containers



Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	ELR	
				60	70
Thickness	Internal method		micron	58	68
			gauge	230	280
Yield	Internal method		in ² /lb	13,800	11,750
			m ² /kg	19.6	16.7
Basis Weight	Internal method		g/m ²	51.0	59.8
			lb/ream	31.4	36.7
Nominal Density	Internal method		g/cm ³	0.88	0.88
Gloss			[20%]	55	55
Opacity	Internal method		%	86	95
Whiteness	Internal method		% (Berger)	88	93
Surface Tension	ASTM D 2578	Back Print	mN/m (dyne)	36 - 39	36 - 39
Breaking Load	Internal method		g/in MD	11,340	18,145
			g/25mm TD	25,855	31,300
Elongation	Internal method		% MD	150	150
			TD	50	50

MD Machine Direction TD Transverse Direction

All properties are tested under standard laboratory conditions: 73 ± 4F, 50 ± 5% RH (23 ± 2°C, 50 ± 5% RH) unless otherwise stated. Where relevant, tests are based on international standards. This document is not a product specification and does not guarantee any specific product attributes. Any existing commercial rights or patents must be observed.

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Conversion

Treatment and Winding	Surface Printing
Both surfaces treated for printing	Ink recommendations for all print processes are available
Preferred printable surface wound to outside of roll	Printing & anti-static properties are guaranteed for 6 months only
Refer to roll tag for specific treatment on roll	Excellent web flatness permits higher speed printing
	Run appropriate trials prior to production
	Consult your ink supplier
	Gloss and matte sides generate different print effects

Conversion Note - This film is suitable for UV and conventional lithographic ink systems. Web and pile temperatures should not exceed a web temperature of 105°F (40°C). Where static electricity may be generated, use of static eliminators and maintaining a relative humidity >50% is recommended. In sheet-fed applications, printing on matte side will affect the feed and de-stacking performance of the film.

Nominal Reel Diameters

Film	Length (metres)				
ELR 60	1,300	3,900	7,800	11,700	15,600
ELR 70	1,075	3,225	6,450	9,675	12,900

Film	Length (feet)				
ELR 230	4,265	12,795	25,591	38,386	51,181
ELR 280	3,527	10,581	21,161	31,742	42,323

Outside Diameter	1x	3x	6x	9x	12x
For 3in / 77mm core	13" (in) 331mm	-	-	-	-
For 6in / 153mm core	-	22.7" (in) 577mm	31.4" (in) 797mm	38.1" (in) 968mm	43.8" (in) 1,113mm

All rolls are wound to length. Actual OD may vary with thickness and winding density variations.

Film Storage and Handling

The films should be placed in the processing area 24 hours prior to processing, to acclimatise. The films are largely unaffected by climatic conditions but should not be stored at temperatures above 104°F (40°C). Under suitable storage conditions, the film can be stored for a period of 6 months without any risk of deterioration.

Food Contact

RayoForm™ ELR is FDA approved for food contact. Please contact Technical Services for other Food Contact statements.

Health & Safety Guidelines

MSDS sheets, as well as other product safety documents, are available for our films upon request.

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