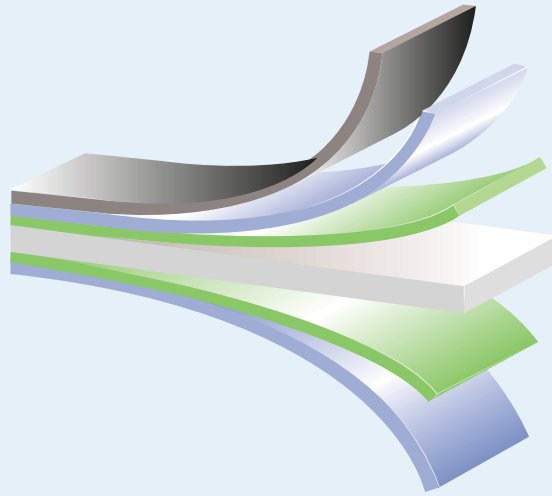


# Rayofoil™ LQS

## Technical Data Sheet

**LQS** - Metallised white opaque, high gloss, cavitated, multi-layer coextruded OPP film.



- Vacuum deposited aluminium
- High gloss treated metal receptive layer
- White OPP layer
- White Cavitated OPP core
- White OPP layer
- Hot melt compatible

### Features

- High yield vs metallised clear films
- Surface printable (on metal)
- Bright white interior appearance
- High metal brilliance
- Excellent hot melt adhesion

### Application

- Laminated roll-fed wrap-around labels
- Pressure sensitive labels



### Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	LQS	
				25	50
Thickness	ASTM D 4321		micron	25	49
			gauge	96	193
Yield	ASTM D 4321		in <sup>2</sup> /lb	40,200	20,700
			m <sup>2</sup> /kg	57.1	29.4
Basis Weight	ASTM D 4321		g/m <sup>2</sup>	17.5	34.0
			lbs/ream	10.8	20.9
Nominal Density	Internal method		g/cm <sup>3</sup>	0.71	0.69
Breaking Load	Internal method		lbs/in	MD	11
				TD	19
Elongation	Internal method		%	MD	150
				TD	50
Optical Density	Internal method			2.5	2.5

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
Metal surface wound to outside of roll	Ink recommendations for all print processes are available
Refer to roll tag about surface characteristics	Bump treatment of the metallised surface and application of a primer is recommended to optimise adhesion of surface inks or coatings. A protective top coat is suggested for applications with less than 100% ink coverage.
	Polypropylene film characteristics are maintained for 6 months from the date of production except for metallised layer surface tension.
	Excellent web flatness permits higher speed printing
	Run appropriate trials prior to production

**Conversion Note** - Generally PVB or NC-based inks with adequate adhesion promoter are suitable for printing on this film. Drying temperatures should not exceed 170°F (76°C). Lowest possible web tension should be applied during conversion of this film. Dity >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)		
LQS 25	3,000	9,000	18,000
LQS 50	1,540	4,620	9,240

Film	Length (feet)		
LQS 100	9,843	29,528	59,055
LQS 200	5,052	15,157	30,315

Outside Diameter	1x	3x	6x
For 3in / 77mm core	13.0" (in) 330mm	-	
For 6in / 153mm core	-	22.7" (in) 577mm	31.3" (in) 796mm

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

Rayofoil™ LQS 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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