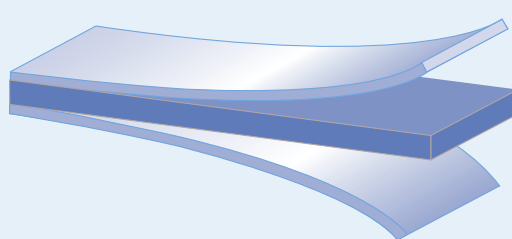


# Rayoface™ CL

## Technical Data Sheet

**CL-** Clear, High Gloss, Biaxially Oriented Polypropylene Film for Overlamination Applications.



Corona Treated Polyolefin Layer

Clear OPP Core

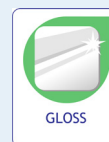
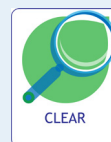
Treatable Polyolefin Layer

### Features

- High gloss surfaces
- Excellent clarity
- Outstanding moisture resistance
- No migratory additives
- Recyclable with polyolefin materials
- High stiffness for conversion
- Balanced biaxial orientation for superior die cutting

### Printability

The corona treated surface of **Rayoface™ CL** is compatible with a wide range of lamination adhesives, however, exact adhesive systems should be recommended by your supplier.



### Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	CL	
Thickness	Innovia Films test		micron	20	30
			gauge	80	120
Yield	Innovia Films test		m <sup>2</sup> /kg	54.9	36.6
			in <sup>2</sup> /lb	38600	25700
			g/m <sup>2</sup>	18.2	27.3
Optical: Gloss Haze (wide angle)	ASTM D 2457 ASTM D 1003	45°	%	>75	
		2.5°		<3.0	
Tensile strength	ASTM D 882	Strain rate 50%/min	MN/m <sup>2</sup>	MD	210
				TD	170
			kpsi	MD	30.4
				TD	24.6
Elongation at break	ASTM D 882	Strain rate 50%/min	%	MD	80
				TD	110
Elasticity modulus (1% secant)	ASTM D 882	Strain rate 10%/min	MN/m <sup>2</sup>	MD	2500
				TD	2200
				MD	362
				TD	319
Dimensional stability	Innovia Films test	60 secs at 120°C (248°F)	%	MD	3.0
				TD	Nil
		60 secs at 130°C (266°F)		MD	7.0
				TD	1.0

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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# Rayoface™ CL

## Technical Data Sheet

### Conversion

The balanced biaxial orientation of Rayoface™ CL results in excellent die cutting performance, enhancing label edge appearance and prolonging die life.

### Reel Specifications

#### Nominal Reel Diameters

Film	Core Size/(mm)	Approx Outside Dia/(mm)	Length/(metres)
CL20	77	330	3800
	153	785	22800
CL30	77	330	2500
	153	871	18300

Film	Core Size/(in)	Approx Outside Dia/(in)	Length/(feet)
CL80	3	13.0	12500
	6	31.0	75000
CL120	3	13.0	8200
	6	34.3	60000

Alternative reel lengths/core sizes are available subject to negotiation.

The print coating is available on either the inner or outer surface of Rayoface™ CL.

### Film Storage and Handling

For the storage of Rayoface™ CL it is recommended that dry conditions at temperatures below 30°C (86°F) are employed to minimize any deterioration of surface discharge treatment level. Rayoface™ CL 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

Rayoface™ CL complies with the applicable EU and US legislation for most applications involving direct contact with foods. Full details are given on the Declaration of Compliance. Customers intending to use Rayoface™ CL in a food contact application should request a copy of this document from Innovia Films. Details of compliance with food contact legislation in non-EU countries are also available upon request.

### Health & Safety Guidelines

For Health & Safety information, please refer to literature reference L190.

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