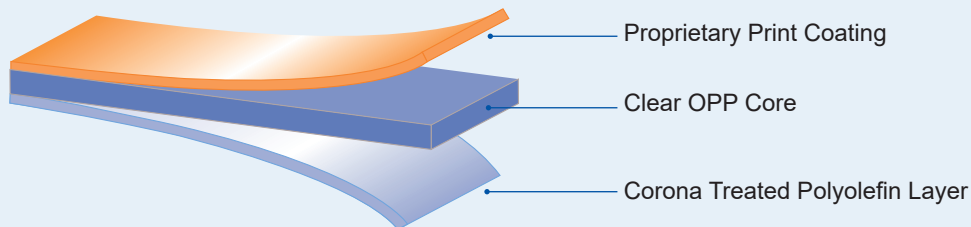


Rayoface™ CSA

Technical Data Sheet

CSA - High Performance, One Side Coated Clear, High Gloss Biaxially Oriented Polypropylene Film for Facestock Applications.

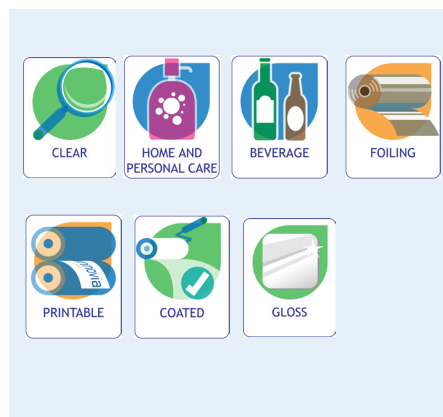


Features

- High clarity
- High gloss
- Print receptive topcoat
- High stiffness for high speed dispensing
- Balanced orientation for enhanced die cutting
- Recyclable with polyolefin materials

Printability

Rayoface™ CSA utilises a unique aqueous topcoat that offers high off-press ink adhesion and enhanced detailed tone and foil capability. Wide narrow web ink, foil and process compatibility make it a very versatile printable film. Suitable for use with UV and WB inks for flexography, web-offset, letterpress and rotary gravure. Exact ink and foils systems should be recommended by your supplier.



Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	CSA
Thickness	Innovia Films test		micron	46
			gauge	180
Yield	Innovia Films test		m ² /kg	24.0
			in ² /lb	16850
			g/m ²	41.7
Optical: Gloss Haze(wide angle)	Innovia Films test	45° 2.5°	%	90
				<4.0
Tensile strength	ASTM D 882	Strain rate 50%/min	MN/m ²	MD TD
			kpsi	MD TD
				200 180
				29.0 26.1
Elongation at break	ASTM D 882	Strain rate 50%/min	%	MD
				TD
Elasticity modulus (1% secant)	ASTM D 882	Strain rate 10%/min	MN/m ²	MD
			kpsi	TD
				2400 2200
				MD TD
Dimensional stability	Innovia Films test	60 secs at 120°C (248°F)	%	MD
				TD
		60 secs at 130°C (266°F)	MD	
			TD	
				3.0 Nil 6.0 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™ CSA

Technical Data Sheet

Conversion

The balanced biaxial orientation of Rayoface™ CSA results in excellent die cutting performance, enhancing label edge appearance and prolonging die life. The high machine direction stiffness and tensile strength produces excellent matrix stripping and superior high speed label dispensing.

Reel Specifications

Nominal Reel Diameters

Film	Core Size/(mm)	Approx Outside Dia/(mm)	Length/(metres)
CSA46	153	887	12300
		776	9300

Film	Core Size/(in)	Approx Outside Dia/(in)	Length/(feet)
CSA180	6	42.3	60050
		34.9	40350
		30.5	30500

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

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

Film Storage and Handling

Care should be taken to protect reels of film from storage temperatures above 30°C (86°F) and localised sources of heat above 45°C (113°F). Reels of Rayoface™ CSA should be protected from high levels of moisture and accidental water splashes at all times. The reels should remain in the protective coverings supplied until ready for use on converting machinery. Converted reels, in both master and slit reel form should be similarly protected at all times. Rayoface™ CSA 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™ CSA complies with applicable EU legislation for applications involving contact with food. Full details are given in the Declaration of Compliance. Customers intending to use Rayoface™ CSA in food contact applications should request a copy of the Declaration of Compliance from Innovia Films

Health & Safety Guidelines

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

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