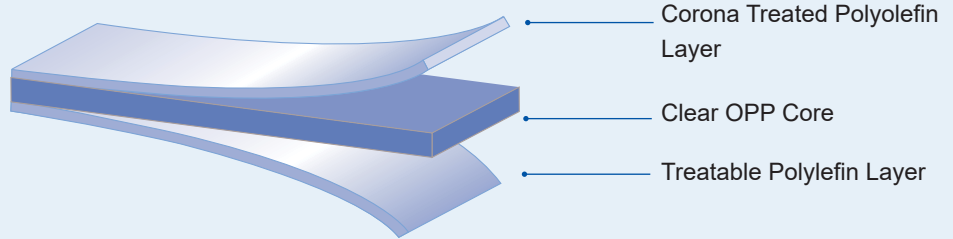


Rayoface™ CZ

Technical Data Sheet

CZ - Clear, High Gloss Biaxially Oriented Polypropylene Film with Enhanced Squeezability for Facestock Applications.

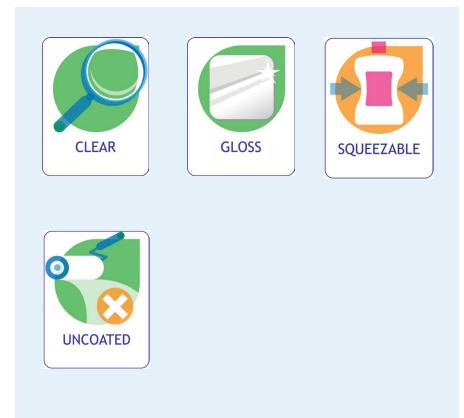


Features

- Enhanced squeeze performance
- Corona treated print surface
- Excellent clarity for 'no-label look'
- Excellent hot/cold moisture resistance
- Recyclable with polyolefin materials
- Balanced biaxial orientation for superior die cutting
- High gloss surface

Printability

Rayoface™ CZ can be printed by traditional flexographic and gravure processes. However, exact ink systems should be recommended by your supplier. Additional in-line corona treatment is recommended for optimum performance.



Technical Properties (Typical Values)

| Property | Test Method | Test Conditions | Units | CZ | |
|----------------------------------|--------------------|--------------------------|---------------------|-------|-------|
| | | | | 50 | 55 |
| Thickness | Innovia Films test | | micron | 50 | 55 |
| | | | gauge | 200 | 220 |
| Yield | Innovia Films test | | m ² /kg | 22.0 | 20.0 |
| | | | in ² /lb | 15500 | 14100 |
| | | | g/m ² | 45.5 | 50.0 |
| Optical: Gloss Haze (wide angle) | Innovia Films test | 45° 2.5° | % | 85 | |
| | | | | <3.0 | |
| Tensile strength | ASTM D 882 | Strain rate 50%/min | MN/m ² | MD | 170 |
| | | | | TD | 180 |
| | | | kpsi | MD | 24.6 |
| | | | | TD | 26.1 |
| Elongation at break | ASTM D 882 | Strain rate 50%/min | % | MD | 80 |
| | | | | TD | 150 |
| Elasticity modulus (1% secant) | ASTM D 882 | Strain rate 10%/min | MN/m ² | MD | 1300 |
| | | | | TD | 1150 |
| | | | kpsi | MD | 188 |
| | | | | TD | 167 |
| Dimensional stability | Innovia Films test | 60 secs at 100°C (212°F) | % | MD | 5.0 |
| | | | | 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™ CZ

Technical Data Sheet

Conversion

The balanced biaxial orientation of Rayoface™ CZ 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) |
|-------|----------------|-------------------------|-----------------|
| CZ50 | 153 | 810 | 9600 |
| CZ55 | 153 | 850 963 | 9600 12300 |
| Film | Core Size/(in) | Approx Outside Dia/(in) | Length/(feet) |
| CZ200 | 6 | 33.5 | 31500 |
| CZ220 | 6 | 33.8 38.0 | 31500 40300 |

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

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

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). 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™ CZ 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™ CZ 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™ CZ 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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