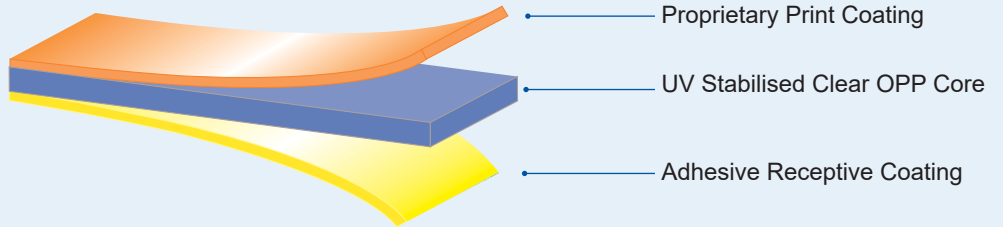


Rayoart™ CGS

Technical Data Sheet

CGS - Clear, High Gloss, Two Side Coated, Biaxially Oriented Polypropylene Film with Enhanced UV Stability, for Graphic Art or Label Applications.

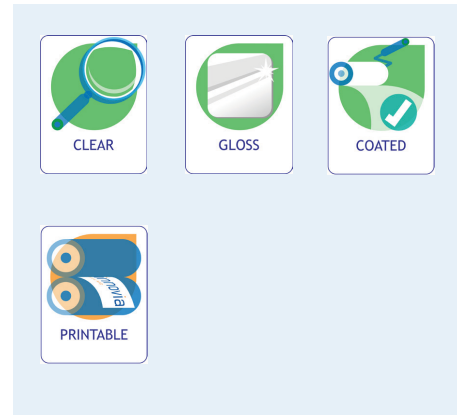


Features

- UV stabilised for outdoor applications
- High clarity, giving excellent definition in window graphic applications
- Extremely easy to apply and remove at low and high temperatures
- High resistance to tearing during handling
- Excellent printability with conventional printing systems
- Reverse side coating gives enhanced adhesive anchorage
- High stability during adhesive lamination and printing processes
- Balanced biaxial orientation for superior die cutting of decals and stickers
- Recyclable with polyolefin materials
- Excellent hot/cold moisture resistance

Printability

Rayoart™ CGS has a proprietary top coating which gives outstanding printing performance. Rayoart™ CGS can be printed by a wide variety of printing processes including offset, screen, letterpress and flexography. The top coat on Rayoart™ CGS gives outstanding print adhesion with the latest UV cured inkjet ink systems.



Technical Properties (Typical Values)

| Property | Test Method | Test Conditions | Units | CGS | | |
|----------------------------------|--------------------|------------------------|---------------------|------------|------|------|
| Thickness | Innovia Films test | | micron | 60 | 92 | |
| | | | gauge | 230 | 360 | |
| Yield | Innovia Films test | | m ² /kg | 18.4 | 12.0 | |
| | | | in ² /lb | 13000 | 8400 | |
| | | | g/m ² | 54.4 | 83.3 | |
| Optical: Gloss Haze (wide angle) | Innovia Films test | 45° 2.5° | % | 90 <3.0 | | |
| Tensile strength | ASTM D 882 | Strain rate 50%/min | MN/m ² | MD | 200 | 190 |
| | | | | TD | 180 | 170 |
| | | | kpsi | MD | 29 | 27.5 |
| | | | | TD | 26 | 24.6 |
| Elongation at break | ASTM D 882 | Strain rate 50%/min | % | MD | 105 | 130 |
| | | | | TD | 120 | 140 |
| Elasticity modulus (1% secant) | ASTM D 882 | Strain rate 10%/min | MN/m ² | MD | 2400 | 2000 |
| | | | | TD | 2200 | 1900 |
| | | | kpsi | MD | 348 | 290 |
| | | | | TD | 319 | 276 |
| Dimensional stability | Innovia Films test | 10 min at 70°C (158°F) | % | MD | 0.3 | -0.4 |
| UV resistance | ASTM G53 | 50°C (122°F) | hours | >1000 | | |

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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use our imagination...

Rayoart™ CGS

Technical Data Sheet

Conversion

The balanced stiffness and strength of Rayoart™ CGS allows high speed conversion during adhesive lamination and printing. The same feature provides excellent die cutting performance, enhancing film edge appearance and prolonging die life.

Reel Specifications

Nominal Reel Diameters

| Film | Core Size/(mm) | Approx Outside Dia/(mm) | Length/(metres) |
|-------|----------------|-------------------------|-----------------|
| CGS60 | 153 | 877 | 9300 |
| CGS92 | 153 | 873 | 6000 |

| Film | Core Size/(in) | Approx Outside Dia/(in) | Length/(feet) |
|--------|----------------|-------------------------|---------------|
| CGS230 | 6 | 32 | 30500 |
| CGS360 | 6 | 34.3 | 19700 |

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. Rayoart™ CGS 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

Rayoart™ CGS does not comply with either EU or US legislation for direct contact with food. For specific enquires please contact our Technical Services Department.

Health & Safety Guidelines

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

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Regional Offices:

Europe (UK) Tel +44 16973 42281

Americas (USA) Tel +1 800 424 6273

Asia-Pacific (Aus) Tel +61 3 9303 0600

www.innoviafilms.com

email: labels@innoviafilms.com

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