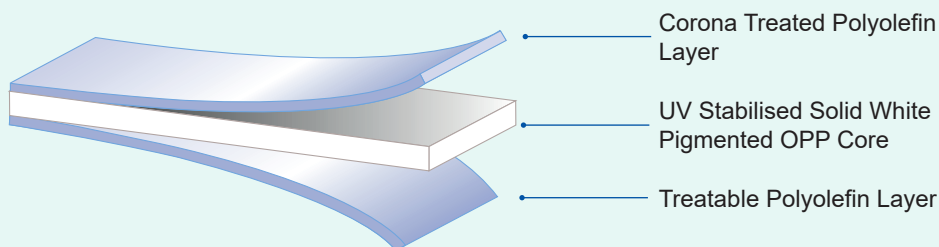


Rayoart™ GW

Technical Data Sheet

GW - White, High Gloss Biaxially Oriented Polypropylene Film with Enhanced UV Stability, for Graphic Art or Label Applications.

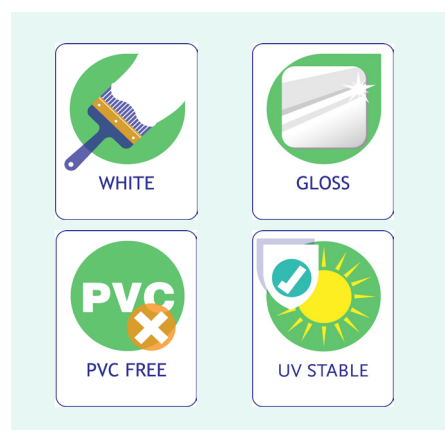


Features

- UV stabilised for outdoor applications
- High opacity
- Extremely easy to apply and remove at low and high temperatures
- High resistance to tearing during handling
- High stability during adhesive lamination and printing processes
- Balanced biaxial orientation for superior die cutting of decals and stickers
- Recyclable with polyolefin materials
- Excellent whiteness

Applications

Rayoart™ GW is designed to be used as a gloss over-laminate film and is not intended to be printed. GW can be used as a base film for subsequent coating, with coating onto the corona treated surface.



Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	GW		
Thickness	Innovia Films test		micron	58	90	
			gauge	230	360	
Yield	Innovia Films test		m ² /kg	17.6	11.3	
			in ² /lb	12400	7900	
			g/m ²	56.4	88.5	
Optical opacity	Innovia Films test		%	80	85	
Tensile strength	ASTM D 882	Strain rate 50%/min	MN/m ²	MD	175	180
				TD	155	170
			kpsi	MD	25.3	26.1
				TD	22.5	24.6
Elongation at break	ASTM D 882	Strain rate 50%/min	%	MD	85	110
				TD	110	120
Elasticity modulus (1% secant)	ASTM D 882	Strain rate 10%/min	MN/m ²	MD	2400	2000
				TD	2100	1900
			kpsi	MD	348	290
				TD	304	276
Dimensional stability	Innovia Films test	70°C (158°F)/10min	%	MD	0.4	
				TD	-0.3	
Surface tension (corona treated surface)			Dyne/cm	>38		
UV resistance	ASTM G154	Continuous Dry Exposure: 0.84W/m ² @ 340nm, 50°C/122°F, 50%RH		> 3000hrs		
		Dry: Wet Cycle Exposure: 4 hrs @ 0.84W/m ² @ 340nm, 50°C/122°F, 50%RH 4 hrs @ 50°C/122°F, 100%RH		> 3000hrs		
Outdoor durability	Vertical Applications*	Central Europe		4 Yrs		

*Unconverted film

MD Machine Direction TD Transverse Direction

All properties are tested under standard laboratory conditions: 23 ± 2°C, 50 ± 5% RH, (73 ± 4°F, 50 ± 5% RH), unless otherwise stated. Where relevant, tests are based on international testing standards. Rayoart™ GW - 1 of 2 - 0822

Rayoart™ GW

Technical Data Sheet

Conversion

The balanced biaxial orientation of Rayoart™ GW 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)
GW58	153	860	9300
		621	4650
GW90	153	864	6000
		621	3000

Film	Core Size/(in)	Approx Outside Dia/(in)	Length/(feet)
GW230	6	33.9	30500
		24.4	15250
GW360	6	34.0	19700
		24.4	9850

Alternative reel lengths are available subject to negotiation.

Corona treatment is available on either the inner or outer surface of Rayoart™ GW.

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°C). 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™ GW 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. For specific enquiries, please refer to our graphic arts market development department.

Food Contact

Rayoart™ GW complies with the applicable EU legislation for most applications involving direct contact with food. Details are given on the Declaration of Compliance. Customers intending to use Rayoart™ GW in a food contact application should request a copy of this document from Innovia Films.

Rayoart™ GW does not comply with FDA regulations for direct food contact applications.

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: graphics@innoviafilms.com

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