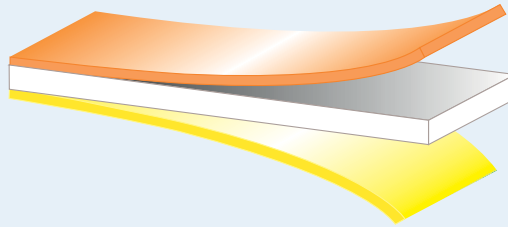


Rayoart™ WGS

Technical Data Sheet

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



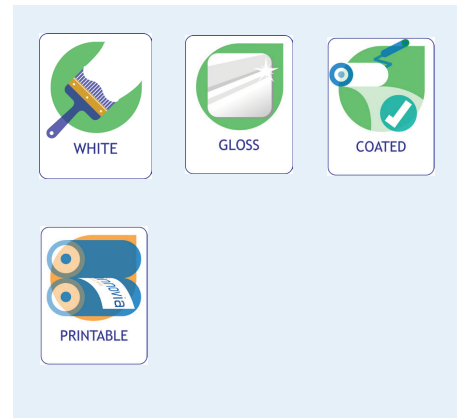
- Proprietary Print Coating
- UV Stabilised Solid White Pigmented OPP Core
- Adhesive Receptive Coating

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
- 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
- Excellent whiteness

Printability

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



Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	WGS		
Thickness	Innovia Films test		micron	60	92	
			gauge	230	360	
Yield	Innovia Films test		m ² /kg	17.0	11.1	
			in ² /lb	12000	7800	
			g/m ²	58.8	90.1	
Optical: Gloss Optical opacity	ASTM D 2457 Innovia Films test	45°	%	50	60	
				80	85	
Tensile strength	ASTM D 882	Strain rate 50%/min	MN/m ²	MD	175	180
				TD	155	170
			kpsi	MD	23.9	26.1
				TD	21.0	24.6
Elongation at break	ASTM D 882	Strain rate 50%/min	%	MD	95	110
				TD	115	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	10 min at 70°C (158°F)	%	MD	0.4	
				TD	-0.3	
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™ WGS

Technical Data Sheet

Conversion

The balanced stiffness and strength of Rayoart™ WGS 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)
WGS60	153	877	9300
WGS92	153	873	6000

Film	Core Size/(in)	Approx Outside Dia/(in)	Length/(feet)
WGS230	6	32.0	30500
WGS360	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™ WGS 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™ WGS 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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