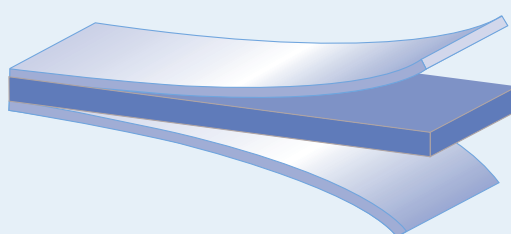


RayoForm™ ICU

Technical Data Sheet

ICU - Clear, High Gloss Biaxially Oriented Polypropylene Film for In Mould and Cut and Stack Labelling.



Corona Treated Gloss Printable/Adhesive Layer

High Clarity OPP Core

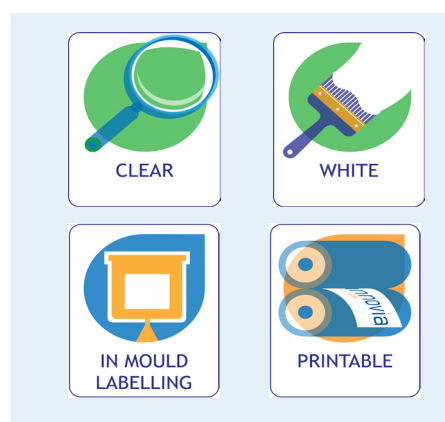
Corona Treated Gloss Printable/Adhesive Layer

Features

- High gloss and transparency to allow the product to be seen
- High sheet feeding speed for sheet fed processes
- Anti-static
- Recyclable with polyolefin materials
- Balanced biaxial orientation
- Resistant to moisture, oils, grease, mild acids and bases.

Printability

RayoForm™ ICU can be printed by flexographic, gravure, letterpress and screen processes. Its anti-static nature also makes it ideally suited to sheet fed litho processes. However, exact ink systems should be recommended by your supplier. Either surface of RayoForm™ ICU can be printed.



Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	ICU	
Thickness	Innovia Films test		micron	47	58
			gauge	190	230
Yield	Innovia Films test		m ² /kg	23.5	18.9
			in ² /lb	16500	13300
			g/m ²	42.6	52.9
Optical: Gloss	ASTM D 2457	45°		85	
				ASTM D 1003	2.5°
Tensile strength	ASTM D 882	Strain rate 50%/min	MN/m ²	MD	210
				TD	175
			kpsi	MD	30.4
				TD	25.4
Elongation at break	ASTM D 882	Strain rate 50%/min	%	MD	85
				TD	105
Elasticity modulus (1% secant)	ASTM D 882	Strain rate 10%/min	MN/m ²	MD	2500
				TD	2200
			kpsi	MD	362
				TD	319
Dimensional stability	Innovia Films test	60 secs at 130°C (266°F)	%	MD	3.0
				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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RayoForm™ ICU

Technical Data Sheet

Applications

RayoForm™ ICU is a clear, biaxially oriented film for IML and other cut and stack labelling. Its superior optical properties make it ideally suited to injection in moulding labelling. The special polyolefin “adhesive” layer makes RayoForm™ ICU ideally suited for injection in mould labelling of polypropylene containers. Here its balanced orientation enables excellent die cutting of complex shapes and reduced container distortion after moulding.

Reel Specifications

Nominal Reel Diameters

Film	Single Length (metres)	12x Length (metres)
ICU47	800	9600
ICU58	625	7500

Film	Single Length (feet)	12x Length (feet)
ICU190	2650	31500

Other reel lengths are available in multiples of the single length as per the core diameter listed below.

Outside Diameter	1x	2x	4x	6x	8x	12x
For 77mm / 3in core	240mm 9½in	330mm 13in	450mm 18in	-	-	-
For 153mm / 6in core	-	-	475mm 18¾in	570mm 22½in	650mm 25½in	785mm 31in

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

Film Storage and Handling

For the storage of RayoForm™ ICU it is recommended that dry conditions at temperatures below 30°C (86°F) are employed to minimise any deterioration of surface discharge treatment level. RayoForm™ ICU 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

RayoForm™ ICU 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 RayoForm™ ICU in a food contact application should request a copy of this document from Innovia Films.

Health & Safety Guidelines

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

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