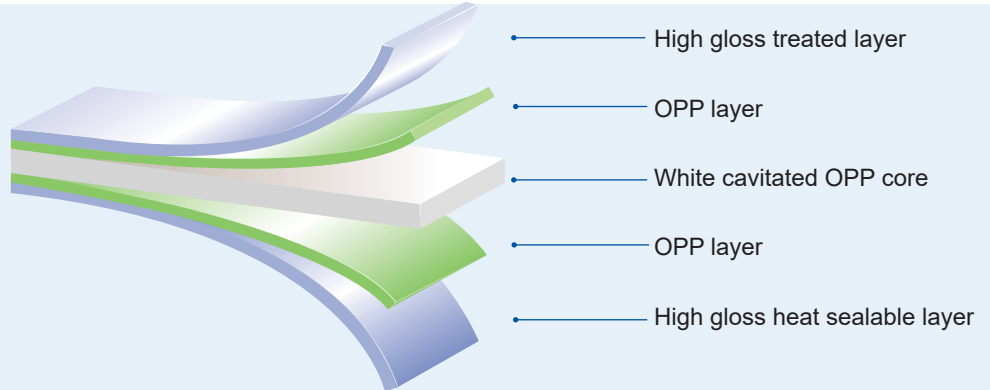


# Propafilm™ QJD

## Technical Data Sheet

**QJD** - White, high gloss, cavitated, multi-layer, coextruded OPP film with a very wide heat seal range

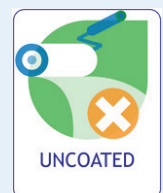


### Features

- Yield advantage of 39% vs transparent or solid opaque white films
- Superior graphic appeal vs paper due to high gloss and opacity
- Easy-open wrap; does not stick to sandwich
- Very high puncture resistance
- A to B tack sealable
- Good machinability with high stiffness and low / consistent COF

### Application

- Ice Cream Sandwiches
- Single web



### Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	QJD	
Thickness	ASTM D 4321		micron	45	
			gauge	170	
Yield	ASTM D 4321		in <sup>2</sup> /lb	23,500	
			m <sup>2</sup> /kg	33.3	
Basis Weight	ASTM D 4321		g/m <sup>2</sup>	30.0	
			lbs/ream	18.4	
Gloss	Innovia test method		[45°]	50	
Opacity	Innovia test method		%	85	
Surface tension	ASTM D 2578	Print	mN/m (dyne)	36-39	
Breaking load			lbs/in	MD TD	
				20.6 46.8	
Elongation at break	Innovia test method		%	MD TD	
				140 35	
Coefficient of Friction	ASTM D 1894	Treated to Treated		0.27	
MVTR	Innovia test method	38°C (100°F)/90% RH	g/m <sup>2</sup> /day	4.40	
			g/100in <sup>2</sup> /day	0.28	
Heat seal range	Innovia test method	Back	°C (min/max)	80-150	
			°F (min/max)	175-300	
		Print	°C (min/max)	132-150	
			°F (min/max)	270-300	
Heat seal strength	Innovia test method	Back-Back	185°F/14.5psi/0.5sec	N/15mm	
			85°C/10N/0.5sec	g/in	
		Print-Back	300°F/14.5psi/0.5sec	N/15mm	2.3
			149°C/10N/0.5sec	g/in	400

MD Machine Direction TD Transverse Direction

All properties are tested under standard laboratory conditions: 73 ± 4F, 50 ± 5% RH (23 ± 2°C, 50 ± 5% RH) unless otherwise stated. Where relevant, tests are based on international standards. This document is not a product specification and does not guarantee any specific product attributes. Any existing commercial rights or patents must be observed.

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*use our imagination...*

# Propafilm™ QJD

## Technical Data Sheet

### Conversion

Treatment and Winding	Surface Printing
One surface treated for printing and/or laminating	Ink recommendations for all print processes are available
Treated surface wound to outside of roll	Printing and anti-static properties guaranteed for 6 months only
See roll tag about treatment specific to roll	Excellent web flatness permits higher speed printing
	Run appropriate trials prior to production
	Consult your ink, coating or adhesive supplier

### Conversion Note -

Note: In some situations, bump retreatment may be necessary to achieve optimal ink adhesion. The ASTM D-2578 standard test may not accurately predict the print performance of the film, showing lower than expected values. Printing should not be impaired. Generally PVB or NC-based inks with adequate adhesion promoter are suitable for printing on the film. Drying temperatures should not exceed a web temperature of 170°F (76°C).

Where static electricity may be generated, use of static eliminators and maintaining a relative humidity >50% is recommended. Can be laminated to Innovia Films' transparent films using solvent-based or solvent-less adhesives.

### Nominal Reel Diameters

Film	Length (metres)				
QJD 45	875	1,750	5,250	10,500	15,750

Film	Length (feet)				
QJD 170	2,871	5,741	17,224	34,449	51,673

Outside Diameter	1/2x	1x	3x	6x	9x
For 3in / 77mm core	9.5" (in) 242mm	13.0" (in) 330mm	-	-	-
For 6in / 153mm core	-	-	22.7" (in) 576mm	31.3" (in) 796mm	38.1" (in) 967mm

All rolls are wound to length. Actual OD may vary with thickness and winding density variations.

### Film Storage and Handling

The films should be placed in the processing area 24 hours prior to processing, to acclimatise. The films are largely unaffected by climatic conditions but should not be stored at temperatures above 104°F (40°C). Under suitable storage conditions, the film can be stored for a period of 6 months without any risk of deterioration.

### Food Contact

Propafilm™ QJD is FDA approved for food contact. Please contact Technical Services for other Food Contact statements.

### Health & Safety Guidelines

MSDS sheets, as well as other product safety documents, are available for our films upon request.

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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](http://www.innoviafilms.com)

email: [packaging@innoviafilms.com](mailto:packaging@innoviafilms.com)

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