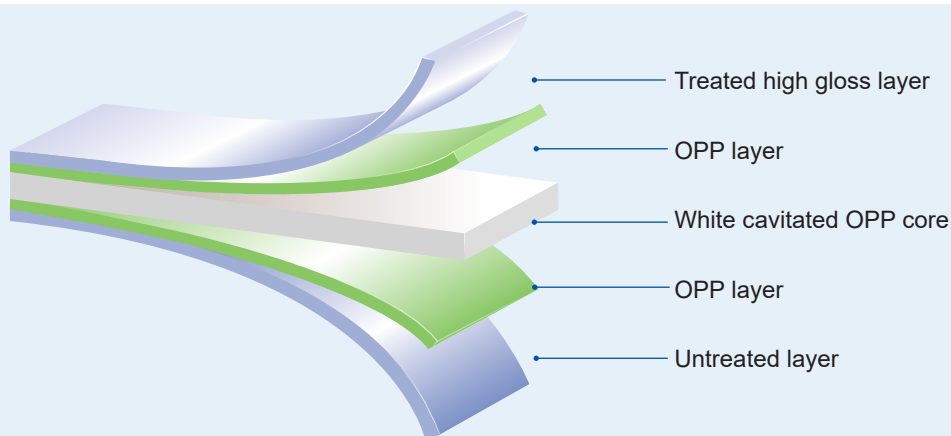


# Rayoface™ QBD

## Technical Data Sheet

**QBD - White cavitated pearlescent, one-side treated multi-layer, coextruded OPP film for PS Labels**



### Features

- Coating receptive surfaces
- High stiffness for label dispensing
- Excellent web flatness for coating process
- In-line treatable surfaces
- Excellent die cutting performance
- Very high yield
- Excellent opacity

### Application

- Face stock for hand-held and automatic label dispensing
- Pressure Sensitive (PS) labels



### Technical Properties (Typical Values)

| Property             | Test Method     | Test Conditions     | Units               |    | QBD    |        |
|----------------------|-----------------|---------------------|---------------------|----|--------|--------|
| Thickness            | Internal method |                     | micron              |    | 60     | 65     |
|                      |                 |                     | gauge               |    | 236    | 256    |
| Yield                | Internal method |                     | in <sup>2</sup> /lb |    | 16,700 | 15,500 |
|                      |                 |                     | m <sup>2</sup> /kg  |    | 23.8   | 22.0   |
| Basis Weight         | Internal method |                     | g/m <sup>2</sup>    |    | 42.0   | 45.5   |
|                      |                 |                     | lb/ream             |    | 25.8   | 28.0   |
| Gloss                | Internal method |                     | (20°)               |    | 65     | 65     |
| Opacity              | Internal method |                     | %                   |    | 86     | 86     |
| Whiteness            | Internal method |                     | % (Berger)          |    | 87     | 87     |
| Surface tension      | ASTM D 2578     | Outside             | mN/m (dyne)         |    | 40     | 40     |
| Breaking Load        | Internal method |                     | N/15mm              | MD | 80     | 80     |
|                      |                 |                     |                     | TD | 155    | 155    |
|                      |                 |                     | lb/in               | MD | 30     | 30     |
|                      |                 |                     |                     | TD | 58     | 58     |
| Elongation           | Internal method |                     | %                   | MD | 160    | 160    |
|                      |                 |                     |                     | TD | 40     | 40     |
| Stiffness (Gurley)   | Internal method |                     | %                   | MD | 19     | 23     |
|                      |                 |                     |                     | TD | 40     | 45     |
| Unsupported Dim Stab | Internal method | 248°F (130°C) /5min |                     | MD | 3      | 3      |
|                      |                 |                     |                     | TD | 5      | 5      |

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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# Rayoface™ QBD

## Technical Data Sheet

### Conversion

| Treatment and Winding                            | Surface Printing                                      |
|--|---|
| One-side treated                                 | Treatment properties are guaranteed for 6 months only |
| Treated surface wound to outside of roll         | Excellent web flatness permits higher speed printing  |
| Refer to roll tag for specific treatment on roll | Run appropriate trials prior to production            |
| Untreated surface is treatable                   | Consult your ink, coating and adhesive suppliers      |

#### Conversion Note -

During conversion, web temperatures should not exceed a web temperature of 105°F (40°C).

### Nominal Reel Diameters

| Film                 | Length (metres)       |
|----------------------|-----------------------|
| QBD 60               | 12500                 |
| QBD 65               | 12,500                |
| Film                 | Length (feet)         |
| QBD 60               | 41,010                |
| QBD 65               | 41,010                |
| Outside Diameter     | 12x                   |
| For 6in / 153mm core | 40.1" (in)<br>1,019mm |

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

Rayoface™ QBD 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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