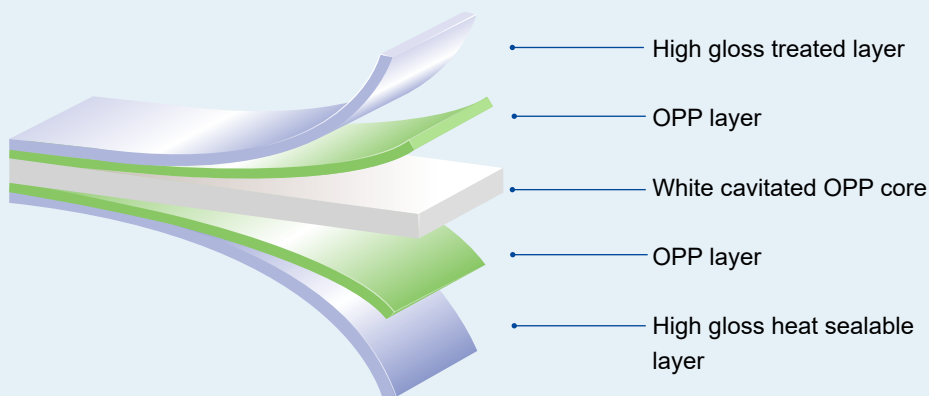


Propafilm™ QID

Technical Data Sheet

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



Features

- Very wide seal range (125°F / 70°C)
- Yield advantage of 39% over transparent and solid white films
- Very high puncture resistance
- Good moisture and odor barrier
- Very high gloss and opacity

Application

- Single web HFFS
- Ice cream novelties
- Confectionery
- Baked goods
- Extend life of machine and lower energy bills due to lower sealing temperatures



Technical Properties (Typical Values)

| Property | Test Method | Test Conditions | Units | QID | |
|----------------------|---------------------|---|---------------------------|---------|-----|
| Thickness | Innovia test method | | micron | 43 | |
| | | | gauge | 169 | |
| Yield | Innovia test method | | in ² /lb | 23,500 | |
| | | | m ² /kg | 33.3 | |
| Basis Weight | Innovia test method | | g/m ² | 30.0 | |
| | | | lbs/ream | 18.4 | |
| Nominal density | Innovia test method | | g/cm ³ | 0.70 | |
| Breaking load | Innovia test method | | lbs/in | MD | 21 |
| | | | | TD | 47 |
| Elongation a break | Innovia test method | | % | MD | 140 |
| | | | | TD | 35 |
| Gloss | Innovia test method | | [45°] | 55 | |
| Opacity | Innovia test method | | % | 83 | |
| Surface tension | ASTM D 2578 | Print | mN/m (dyne) | 36-39 | |
| COF | ASTM D 1894 | Treated to Treated | | 0.20 | |
| MVTR | Innovia test method | 38°C (100°F)/90% RH | g/m ² /day | 4.4 | |
| | | | g/100in ² /day | 0.28 | |
| Heat seal range back | | (min/max) (min/max) | °C | 80-150 | |
| | | | °F (min/max) | 175-300 | |
| Heat seal strength | Innovia test method | Back 185°F/14.5psi/0.5sec 85°C/10N/0.5sec | N/15mm | 2.6 | |
| | | | g/in | 450 | |

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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Propafilm™ QID

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 supplier |

Conversion Note -

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. Recommend laminating to Innovia Films' transparent films using solvent-based or solvent-less adhesives.

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.

Nominal Reel Diameters

| Film | Length (metres) | | | | |
|--------|-----------------|-------|-------|--------|--------|
| QID 43 | 875 | 1,750 | 5,250 | 10,500 | 15,750 |

| Film | Length (feet) | | | | |
|---------|---------------|-------|--------|--------|--------|
| QID 169 | 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) 241mm | 13" (in) 330mm | - | - | - |
| For 6in / 153mm core | - | - | 22.7" (in) 576mm | 31.3" (in) 795mm | 38.1" (in) 966mm |

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™ QID 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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