

THE STANDARD CLARIFOIL RANGE

| Nominal gauge (microns) | Grade | Nominal Yield g/m ² | Nominal single roll length in metres | |
|----------------------------|--------------|--------------------------------------|-----------------------------------------|------------------|
| | | | <i>M a t t</i> | <i>C l e a r</i> |
| 14 | P20 | 18.3 | | 3,600 |
| 14 | P20 Satiné | 18.3 | 3,000 semi-matt | |
| 15 | P20 Semitone | 19.9 | 2,500 semi-matt | |
| 20 | P20 | 26.2 | 2250 | |
| 24 | P20 | 31.4 | | 2,100 |
| 30 | P20 | 39.3 | | 1,670 |
| 35 | P20 | 45.9 | | 1,500 |
| 36 | M28 | 46.8 | 1,335 | |
| 40 | P20 | 52.4 | 1,250 | 1,250 |
| 50 | P20 | 65.5 | 1,000 | 1,000 |
| 70 | P20 | 91.7 | 675 | |
| 75 | P20 | 98.3 | | 675 |
| 95 | P20 | 124.5 | | 530 |
| 115 | P27 | 149.5 | | 435 |
| 150 | P27 | 195.0 | | 335 |
| 180 | P27 | 234.0 | | 280 |
| 250 | P27 | 325.0 | | 200 |
| 360 | P27 | 468.0 | | 140 |
| 500 | P27 | 650.0 | | 105 |

| CLEAR FILM Nominal Thickness microns | Production Widths | Typical Roll Weights (kg) |
|--------------------------------------------|-------------------|------------------------------|
| 14 - 50 | 1270 – 1370 mm | 75 - 90 kg |
| 75 - 250 | 1290 – 1350 mm | 75 - 90 kg |
| 360 - 500 | 1270 – 1300 mm | 75 - 90 kg |
| MATT ONE SIDE | | |
| 20 - 70 | 1270 – 1280 mm | 79 - 87 kg |

| COLOURED FILM | | | Typical Roll Weights (kg) |
|-------------------|-----|---------|------------------------------|
| 80 red/green/blue | P20 | 1350 mm | 75 - 84 |

A wide range of coloured films and finishes are now available in thin films for the print lamination market, see the data sheet Clarifoil Lamination Range. Further films are available for specific applications, including flame retardant, UV absorbent optical films and films for security applications.

Additionally, other non-standard gauges and colours may be produced, subject to minimum order quantities. Please contact Clarifoil Sales for details.

IMPORTANT: When ordering, please specify P20 or P27 for food contact end-uses.

| | | |
|------------------------|-------------|-------------------|
| Commercial Tolerances: | Gauge | ± 5% |
| | Roll length | ± 5% 14µ - 115µ |
| | Roll length | ± 10% 150µ - 500µ |
| | Roll width | ± 1.0 mm |
| | Yield | ± 5% |

Slit reels

Clarifoil production rolls can be supplied slit into reels to customers' requirements, subject to surcharge. The slit widths available vary according to size of reel.

| | | | |
|--------|--------------------|-----------|----------|
| Widths | Less than 250 mm | Tolerance | ± 0.5 mm |
| Widths | 250 mm and greater | Tolerance | ± 1.0 mm |

Narrow reels for UK/European window patching customers are generally supplied as 13"/330 mm OD rolls (3" cores), where the roll lengths are 1.5x standard single lengths.

Finish

Clarifoil can be supplied in clear, matt, or semi-matt finishes. The matt film is matt one side only, with the standard gloss finish on the other. *Semitone™* and *Satiné* are semi matt films designed primarily for the print lamination market.

Colours

CF315 green, CF328 red, CF329 blue in 80 micron pol/pol are produced for use in 3D spectacle lenses.

A wide range of new coloured films has been introduced for print lamination - see The Clarifoil Lamination Range data sheet.

Manufacture of other colours is dependent on a suitable minimum order requirement. Details will be supplied against specific enquiries.

Packing, Storage and Shelf Life



Celanese Acetate Limited

Registered in London No. 5859422.

Registered Office 1, Holme lane, Spondon, Derby, United Kingdom, DE21 7BP

P O Box 5
Spondon, Derby
United Kingdom
DE21 7BP
Tel +44 (0) 1332 661422
Fax +44 (0) 1332 660178
www.clarifoil.com
www.celaneseacetate.com

Rolls

All rolls of Clarifoil are over-wrapped with polyethylene film to ensure they reach the customer in factory fresh condition. Rolls of thin film are suspended in cardboard cartons. They are best unpacked by opening the flaps which run the length of the carton, folding these right back and rolling the carton over so that the open side is downwards. The carton can then be lifted off the roll which will still be supported by the suspension units.

Storage

Decades of reliable performance have demonstrated that Clarifoil cellulose diacetate film can be used in its many applications with the confidence that the product provides a consistently high level of quality. However, cellulose diacetate, like all polymers, must be stored appropriately to preserve its performance. Close adherence to the following conditions will maintain Clarifoil rolls in the best possible state.

- Keep all rolls in their moisture-proof wrapping until required for processing. Re-wrap partially used and slit rolls.
- Suspend the rolls on racks by rods through the cores.
- Avoid "walking" rolls in cartons on one end as the edges will become damaged. This is very important for rolls of thin film (14 - 30 μ).
- Avoid wide variations in temperature and humidity in the storeroom. Temperatures between 15°C - 23°C (59°F - 73°F) and a relative humidity between 40% - 65% are the best conditions.
- Avoid exposure to ketone and ester solvent vapours such as acetone or ethyl acetate.
- Do not store in bright sunlight.
- Under ideal storage conditions, Clarifoil films provide a good shelf life. However, in many commercial situations, storage conditions are not optimal and customers should look to convert film stocks promptly.

Shelf Life

We recommend that customers process Clarifoil within twelve months of its receipt. Particularly for hot and/or humid climates, it may be advisable to convert Clarifoil within six or even three months of receipt. Some films will need to be processed in shorter periods to avoid problems. In particular, thicker films over 100 μ may suffer unidirectional curl ("roll set") if converted to sheet stock after even a few months storage as rolls. For applications where this might be critical, thicker films should be sheeted as soon as possible after receipt.

In case of problems after such periods, Clarifoil reserves the right not to offer compensation in respect of problems arising with film quality.

June 2004
TL