

R-HTF

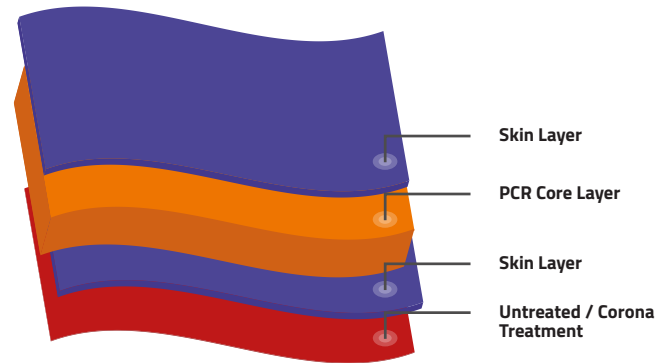
HOT STAMPING BASE FILM

R-HTF is transparent BOPET film from our Asclepius branded PCR content products. The film is either both sides Untreated or one side Corona Treated with other side Untreated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- Post Consumer Recycle content for a low carbon footprint (all % PCR)
- Very high thermal stability
- Excellent machinability & handling properties
- High mechanical properties
- Good optical properties

FILM STRUCTURE



APPLICATION:

- This grade of film is ideal as a transfer foil to transfer designs on paper, textile, or plastics

| PROPERTIES | | TEST METHOD | UNIT | TYPICAL VALUES | | | | | | |
|---|----|-------------|------------------|----------------|-------|-------|-------|-------|-------|-------|
| THICKNESS | | Internal | Micron | 12 | 15 | 19 | 23 | 36 | 45 | 50 |
| | | | (Gauge) | 48 | 60 | 76 | 92 | 144 | 180 | 200 |
| YIELD | | Internal | m² / kg | 59.52 | 47.62 | 37.59 | 31.05 | 19.84 | 15.87 | 14.28 |
| | | | in² /lb | 41934 | 33550 | 26483 | 21876 | 13978 | 11181 | 10060 |
| SURFACE TENSION (min) # (Corona Treated surface) | | ASTM D-2578 | dyne/cm | 52 | | | | | | |
| COF (max) (Corona Treated to Untreated) (Untreated to Untreated) | | ASTM D-1894 | - | 0.50 | 0.50 | 0.50 | 0.50 | 0.45 | 0.45 | 0.45 |
| | | | | 0.45 | 0.45 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 |
| HAZE (max) | | ASTM D-1003 | % | 4.0 | 4.0 | 4.0 | 4.5 | 5.0 | 5.5 | 5.5 |
| TENSILE STRENGTH AT BREAK (min) | MD | ASTM D-882 | kg/cm² | 1900 | 1900 | 1900 | 1900 | 1750 | 1750 | 1750 |
| | TD | | | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| | MD | | (Psi) | 27000 | 27000 | 27000 | 27000 | 25000 | 25000 | 25000 |
| | TD | | | 28500 | 28500 | 28500 | 28500 | 28500 | 28500 | 28500 |
| ELONGATION AT BREAK (min) | MD | ASTM D-882 | % | 105 | 105 | 110 | 115 | 120 | 125 | 125 |
| | TD | | | 85 | 85 | 90 | 90 | 90 | 90 | 95 |
| LINEAR SHRINKAGE (max) (5 Minute at 190°C) (30 Minute at 150°C) | MD | ASTM D-1204 | % | 5.0 | 5.0 | 5.0 | 5.0 | - | - | - |
| | TD | | | 0.6 | 0.6 | 0.6 | 0.6 | - | - | - |
| | MD | | | - | - | - | - | 2.0 | 2.0 | 2.0 |
| | TD | | | - | - | - | - | 0.8 | 0.8 | 0.8 |
| MVTR (38° C & 90% RH) (typical) | | ASTM F-1249 | gm/m²/day | 45 | 40 | 35 | 30 | 20 | 18 | 16 |
| | | | (gm/100 in²/day) | 2.9 | 2.6 | 2.3 | 2.0 | 1.3 | 1.2 | 1.0 |
| OTR (23° C & 0% RH) (typical) | | ASTM D-3985 | cc/m²/day | 130 | 110 | 90 | 80 | 70 | 55 | 45 |
| | | | (cc/100 in²/day) | 8.5 | 7.1 | 5.8 | 5.2 | 4.5 | 3.5 | 2.9 |

The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

FOOD CONTACT

SELEXIBLE complies with EU and FDA regulations on plastic materials used for food grade applications. Specific documents and SDS are available on request.

DISCLAIMER

It is the responsibility of our customer to determine that their use of our products is safe, lawful, and technically suitable in their intended applications. The technical data sheets are provided for discussion purposes only. The customer may not rely on the data provided for any manufacturing purpose. The values provided in the technical data sheet represent typical values based on the best of our knowledge as of the date when the data was compiled. The data is offered solely to provide possible suggestions for your own experimentation and not as a guarantee for the material supplied. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability/compatibility in all respects. Selexible provides no warranty and accepts no liability for any loss or fitness of the product for any specific purpose based on the information contained in the technical data sheets. Selexible reserves the right to change the technical data sheet at any time without prior notice.

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