

## TECHNICAL DATA SHEET



# MANUCOR® PF

One side treated Bopp film  
for overwrapping

- ◆ Excellent mechanical properties
- ◆ Excellent gloss and haze
- ◆ High degree of surface treatment
- ◆ Good resistance to puncture or abrasion

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OPP

⇒ CANISTRE ARTOIS

| PROPERTIES                    | TEST METHOD    | UNIT                   | TYPICAL VALUES |      |      |      |      |      |
|-------------------------------|----------------|------------------------|----------------|------|------|------|------|------|
| THICKNESS                     | Manuli*        | micron                 | 25             | 28   | 30   | 35   | 38   | 40   |
| UNIT WEIGHT                   | -              | g/cm <sup>2</sup>      | 22.7           | 25.5 | 27.3 | 31.8 | 34.6 | 36.4 |
| YIELD                         | -              | m <sup>2</sup> /kg     | 44.0           | 39.2 | 36.6 | 31.4 | 28.9 | 27.5 |
| WETTING TENSION               | ASTM D 2578-84 | dynes/cm               | ≥ 38           |      |      |      |      |      |
| HAZE                          | ASTM D 1003-88 | %                      | 0.9            | 1    | 1    | 1    | 1.2  | 1.2  |
| GLOSS                         | ASTM D 2457-90 | %                      | 90             | 90   | 90   | 90   | 90   | 90   |
| COEFFICIENT OF FRICTION       | ASTM D 1894-90 | F-F din (U-U)          | 0.5            | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
|                               |                | F-M din (U-M)          | 0.32           | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 |
| TENSILE STRENGTH AT BREAK     | ASTM D 882-91  | N/mm <sup>2</sup> (MD) | 170            | 170  | 170  | 170  | 150  | 150  |
|                               |                | N/mm <sup>2</sup> (TD) | 270            | 270  | 270  | 270  | 280  | 280  |
| ELONGATION AT BREAK           | ASTM D 882-91  | % (MD)                 | 160            | 160  | 160  | 160  | 170  | 170  |
|                               |                | % (TD)                 | 60             | 60   | 60   | 60   | 60   | 60   |
| TENSILE MODULUS OF ELASTICITY | ASTM D 882-91  | N/mm <sup>2</sup> (MD) | 2100           | 2100 | 2100 | 2100 | 2100 | 2100 |
|                               |                | N/mm <sup>2</sup> (TD) | 3700           | 3700 | 3700 | 3700 | 3700 | 3700 |
| SHRINKAGE                     | 120 °C, 5'     | % (MD)                 | ≤ 5            |      |      |      |      |      |
|                               |                | % (TD)                 | ≤ 3            |      |      |      |      |      |

\*Manuli's Method = gravimetric weight made on 100 samples per lot

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