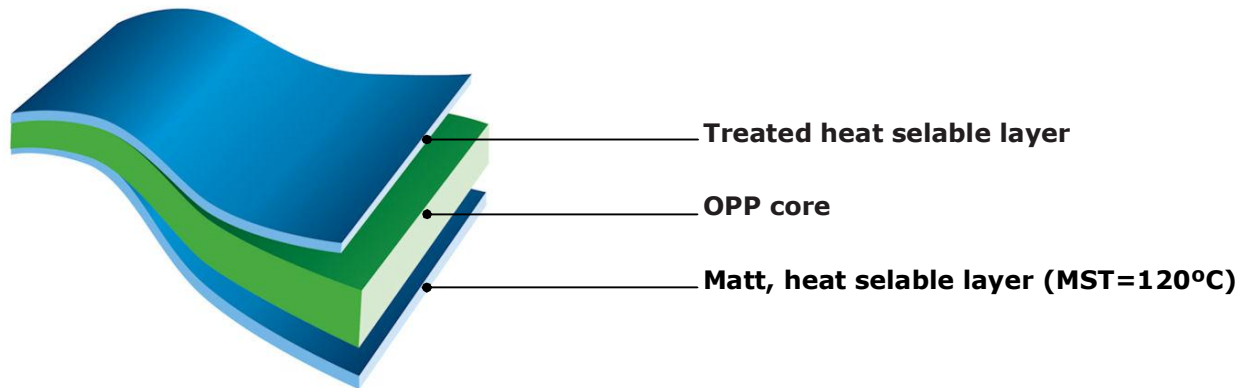




# MUS

**BoPP matt film, both sides heat sealable, treated**



## PROPERTIES

- One side matt appearance, other side glossy
- Heat sealable on both sides
- Glossy side treated for printing/lamination
- Good antistatic and consistent slip properties

## TYPICAL APPLICATIONS

- Paper look lamination
- Rotogravure and flexographic reverse printing
- HFFS and VFFS packaging

## ROLL SIZE AVAILABILITY\*

| Film                           | Standard Length (m) | 4x (m) | 6x (m) | 8x (m) |
|--------------------------------|---------------------|--------|--------|--------|
| <b>MUS 20</b>                  | 3,200               | 12,800 | 19,200 | 25,600 |
| <b>MUS 30</b>                  | 2,100               | 8,400  | 12,600 | 16,800 |
| Outside diameter – core 76 mm  | 305 mm              | 588 mm | 716 mm | 825mm  |
| Outside diameter - core 152 mm | 337 mm              | 605 mm | 730 mm | 838 mm |

\*Regional availability of roll sizes (multiples of standard length)-please refer to the corresponding Sales Representative

| Properties                | Method                           | Unit                | Ref.         | Typical values |      |
|---------------------------|----------------------------------|---------------------|--------------|----------------|------|
| Nominal thickness         | Internal method                  | µm                  |              | 20             | 30   |
| Unit weight               |                                  | g/m <sup>2</sup>    |              | 17.6           | 26.4 |
| Yield                     |                                  | m <sup>2</sup> /kg  |              | 56.8           | 37.9 |
| Tensile strength          | ASTM D882                        | N/mm <sup>2</sup>   | MD           | 150            |      |
|                           |                                  |                     | TD           | 280            |      |
| Elongation at break       |                                  | %                   | MD           | 160            |      |
|                           |                                  |                     | TD           | 50             |      |
| Haze                      | ASTM D1003                       | %                   |              | 72             |      |
| Gloss (45°)               | ASTM D2457                       | Gloss Unit          | Matt Side    | 8              |      |
|                           |                                  |                     | Gloss side   | 50             |      |
| Dynamic cof               | ASTM D1894                       |                     | NT/NT        | 0.40           |      |
| Thermal shrinkage         | Internal method (130°C , 5 mins) | %                   | MD           | 6.0            |      |
|                           |                                  |                     | TD           | 3.0            |      |
| Heat seal range           | Internal method                  | °C                  | Both side    | 120-140        |      |
| Seal strength             | Internal method 130°C ;0.5 s     | g/cm                | NT / NT      | 200            | 240  |
| Treatment level           | ASTM D2578                       | mN/m                | Treated Side | 38             |      |
| Water vapour permeability | ASTM F1249 (38°C - 90% RH)       | g/m <sup>2</sup> /d |              | 10.0           | 8.0  |

| Tolerance |                 |       |
|-----------|-----------------|-------|
| Weight    | ≤ 1,000 kg      | ± 20% |
|           | 1,001-10,000 kg | ± 10% |
|           | > 10,000 kg     | ± 5%  |

## STORAGE, HANDLING AND APPLICATION

MUS film does not require special storage conditions. A storage temperature between 20°C to 30°C is recommended in order to minimize the deterioration of the film properties in general. It is advisable to turnover the inventory according to the delivery date (first in – first out). The film should be conditioned in the operating environment at least 24 hours before processing. MUS film is suitable for use up to 6 months from the date of production.

## INDICATION OF SURFACE TREATMENT

MUS is usually supplied with treatment on the outside surface (TO). MUS can be supplied either with treatment on the inside treated (TI) or treated on both sides (DO/DI). This must be agreed with our sales representative before processing the order.

## FOOD CONTACT

MUS film complies with EC and FDA regulations. Specific document and MSDS are available upon request.

The property values represented in the table do not constitute product specifications, but represent the average or typical values. Use of this information is limited to the specific recipient. While the information is accurate to the best of our knowledge as of the date compiled, it is limited to the information as specified. No representation or warranty, expressed or implied, is made regarding the information, or its completeness or fitness to a particular use. The user is solely responsible for all determinations regarding use and we disclaim liability for any loss or damage that may occur from the use of this information. Ti does not guarantee the typical (or other) values.