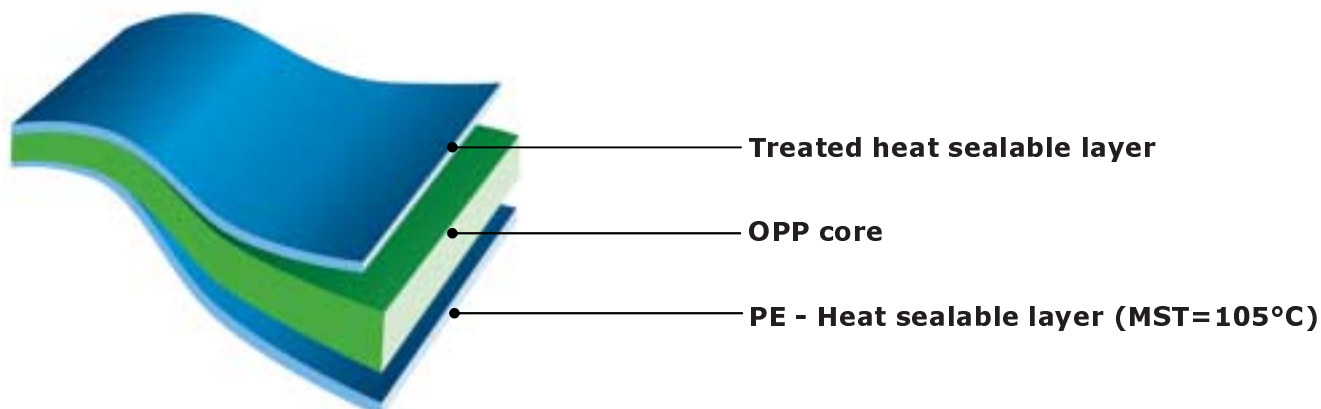




TPE

BoPP transparent film, one side sealable to PE, treated



PROPERTIES

- Sealable against a wide range of PE
- Heat sealable on both sides
- Good mechanical properties
- Good moisture barrier
- Good antistatic and slip properties

TYPICAL APPLICATIONS

- Rotogravure and flexographic printing
- Lamination with PP and PE films
- HFFS and VFFS packaging
- General overwrapping

ROLL SIZE AVAILABILITY*

| Film | Standard Length (m) | 4x ** (m) | 7x (m) |
|--------------------------------|---------------------|-----------|--------|
| TPE 20 | 3,200 | 12,800 | 22,400 |
| Outside diameter - core 76 mm | 305 mm | 588 mm | |
| Outside diameter - core 152 mm | 337 mm | 605 mm | 783 mm |

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

**Length rolls on 152 mm cores will be produced with reduced length in Europe to maintain roll diameters below 600 mm

| Properties | Method | Unit | Ref. | Typical values |
|---------------------------|---------------------------------|---------------------|----------|----------------|
| Nominal thickness | Internal method | µm | | 20 |
| Unit weight | | g/m ² | | 18.2 |
| Yield | | m ² /kg | | 54.9 |
| Tensile strength | ASTM D882 | N/mm ² | MD TD | 140 280 |
| Elongation at break | | % | MD TD | 160 50 |
| Haze | ASTM D1003 | % | | 2.0 |
| Gloss (45°) | ASTM D2457 | Gloss Unit | | 85 |
| Dynamic cof | ASTM D1894 | | NT/NT | 0.25 |
| Thermal shrinkage | OPMA TC4(a) | % | MD TD | 6.0 3.0 |
| Heat seal range | Internal method | °C | NT/NT | 105÷140 |
| Seal strength | Internal method 130°C ;0.5 s | g/cm | | 180 |
| Treatment level | ASTM D2578 | mN/m | | 38 |
| Water vapour permeability | ASTM F1249 (38°C - 90% RH) | g/m ² /d | | 7.0 |

| Tolerance | | |
|-----------|-----------------|-------|
| Weight | ≤ 1.000 kg | ± 20% |
| | 1.001-10.000 kg | ± 10% |
| | > 10.000 kg | ± 5% |

STORAGE, HANDLING AND APPLICATION

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

INDICATION OF SURFACE TREATMENT

TPE is usually supplied with treatment on the outside surface (TO).
TPE can be supplied with treatment on the inside surface (TI). This must be agreed with our sales representative before processing the order.

FOOD CONTACT

TPE complies with EC and FDA regulations. Specific documents and MSDS are available on 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.