



CastFilm

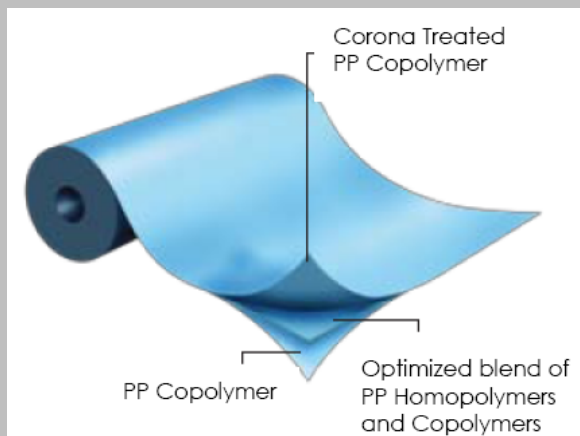
Unoriented
Polypropylene Film
High Flexibility

Applications

This product is designed to be used as a mono-layer in different bag applications where high flexibility and impact resistance is required. It is also used in laminations with other substrates for high transparency and cold resistance. It is used in stationary applications as sheet protector. In the export flower packaging it is used for bundle protection. In order to increase its flexibility, this film also meets the FDA regulations for direct food contact.

Description

The Castfilm CT is designed to produce high transparency, flexibility and excellent heat sealability. Its formulation presents an excellent tear resistance and good moisture barrier. This film is corona treated in one face.



Standard Dimensions

| Product Code | Thickness (µm) | Unit Weight (g/m ²) | Width (mm) | Paper Core | External Ø 550 mm | | Treated Face |
|--------------|----------------|---------------------------------|--------------|------------|-------------------|----------------|--------------|
| | | | | | Length (m) | Weight (Kg/cm) | |
| CT20 | 20.0 | 18.1 | 400 to 2,000 | 3 & 6" | 10,300 | 1.89 | Outside |
| CT30 | 30.0 | 27.2 | | | 6,900 | | |
| CT40 | 40.0 | 36.2 | | | 5,150 | | |
| CT50 | 50.0 | 45.2 | | | 4,100 | | |
| CT60 | 60.0 | 54.3 | | | 3,400 | | |
| CT80 | 80.0 | 72.4 | | | 2,600 | | |
| CT100 | 100.0 | 90.5 | | | 2,050 | | |
| CT125 | 125.0 | 113.1 | | | 1,640 | | |
| CT150 | 150.0 | 135.8 | | | 1,370 | | |

Main Characteristics

- Multiple usages
- Mechanical Flexibility
- Outstanding gloss and transparency
- High slip level
- Excellent flatness and dimensional stability
- Treated face suitable for good adhesion to inks and adhesives



Typical Values of Physical Properties*

| Property | Unit | Testing Method | Thickness in microns | | | | | | | | | | | |
|--|------------------------|---------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
| | | | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 125 | 150 | | | |
| Haze | % | ASTM D1003 | 1.5 | 1.8 | 2.0 | 2.5 | 3.0 | 3.5 | | | | | | |
| Gloss @ 45° | % | ASTM D2457 | 90 | | | | | | 85 | | | | | |
| Kinetic Coefficient of Friction (COF - F/F) | - | ASTM D1894 | 0.10 | | | | | | | | | | | |
| Secant Modulus @ 2% | MD | ASTM D882 | 500 | | | | | | | | | | | |
| | TD | | 400 | | | | | | | | | | | |
| Impact Strength | J | ASTM D3420 | 2.0 | 2.5 | > 3.0 | | | | | | | | | |
| Tear Resistance | MD | ASTM D1922 | 1.0 | | | | | | | | | | | |
| | TD | | 6.0 | 8.0 | | | 10.0 | | | | | | | |
| Surface Tension | dyne /cm | ASTM 2578 | 37 | | | | | | | | | | | |
| Heat Seal Initiation Temperature (SIT) | NT | ASTM F88/F2029A 40psi, 0.5 s | 120 | | | | | | | | | | | |
| | T | | 130 | | | | | | | | | | | |
| Seal Strength @ 140°C | N/25mm | | 12 | 14 | 18 | 24 | | 28 | | | | | | |
| Water Vapor Transmission Rate @ 38°C, 90% RH | g/m ² /day | ASTM F1249 | 13 | 12 | 11 | 10 | 9 | 8 | | 7 | 6 | | | |
| Oxygen Transmission Rate (OTR) @ 22°C, 0% RH | cc/m ² /day | ASTM D3985 | 3,700 | 3,650 | 3,600 | 3,550 | 3,500 | 3,450 | 3,300 | 3,000 | 2,800 | | | |

NOTES

- MD Machine Direction
- TD Transverse Direction
- NT Non Treated Side
- T Treated Side

* Information presented in this data sheet is intended to be used as general guidelines and not as technical specifications

Important Considerations

- The surface tension of this film tends to decay through time. It is therefore recommended to verify this property before using this product. If the surface tension is found to be low, this film could be retreated.
- It is recommended to store this material at conditions not exceeding 30°C in temperature, at shadow and with a relative humidity of 60%