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Main Characteristics

- Heat-sealable on the glossy side from 112°C;
- Internal and external surface treatment;
- One high-gloss white side and one matte side;High rigidity and low elongation;

- Cavitated film with high opacity;
 Great performance on flexographic, rotogravure, digital, ultraviolet and thermal transfer.

Typical Applications

- Self-adhesive labels and tags (Pressure Sensitive Label);
 Magazine Labels (WAL Cut & Stack);
 Decorative applications in general.



| Properties | | Methodology | Unit | Range | 40TWOPSI |
|--------------------------------|-----|-------------------------|--|---------------------------------------|------------------|
| | | Physical P | roperties | | |
| | | DIN 53370 | μm | Target | 59.0 |
| | | | | Min. | 56.0 |
| | | | | Max. | 61.9 |
| Nominal Thickness | | | | Target | 236.0 |
| | | | Gauge | Min. | 224.2 |
| | | | | Max. | 168.0 |
| Unit Weight | | ASTM D 4321 | g/m² | Target | 40.0 |
| | | | | Min. | 38.0 |
| | | | | Max. | 42.0 |
| | | | lb/ream | Target | 24.5 |
| | | | | Min. | 23.3 |
| | | | | Max. | 25.8 |
| | | | m²/kg | Target | 25.0 |
| | | | | Min. | 23.8 |
| | | | | Max. | 26.3 |
| Yield | | ASTM D 4321 | in²/lb | Target | 17500 |
| | | | | Min. | 16667 |
| | | | | Max. | 18421 |
| Surface Treatment | | ASTM D 2578 | dinas/cm | Target | 40 |
| | Т | | | Min. | 38 |
| Coefficient of Friction | MAT | ASTM D 1894 | - | Target | 0.35 |
| | | | | Min. | 0.25 |
| | | | | Max. | 0.50 |
| | | Optical Pr | operties | · · · · · · · · · · · · · · · · · · · | |
| Transmittance | | ASTM D 1003 | % | Target | 17 |
| | | | | Max. | 20 |
| Gloss (45°) | MAT | ASTM D 2457 | u.b. | Target | 12 |
| | | | | Min. | 14 |
| | | Mechanical I | Properties | | |
| | MD | oonaou | Торонноо | | 90 |
| Tensile Strenght | TD | ASTM D 882 | N/mm² | Target | 180 |
| | MD | | lbf/in² | Target | 13050 |
| | TD | | | | 26100 |
| | MD | | | | 180 |
| Elongation at Break Shrinkage | TD | ASTM D 882 ASTM D 1204 | % - | Target Target | 35 |
| | MD | | | | 3 |
| | _ | | | | 1 |
| | TD | | °C | Torest | 112 - 130 |
| Sealing Range | BRI | ASTM F 88 | °F | Target | 234 - 266 |
| | BRI | ASTM F 88 | g/25mm or gf/in | Target | 234 - 266 800 |
| Sealing Strenght | | | | Target Min. | 350 |
| | | Parriar Pr | , | Min. | 350 |
| TD\/A 20%C / 00%/ UD | | Barrier Pro | • | | NA |
| TPVA 38°C / 90%UR | | ASTM F 1249 | g H ₂ O / (m².dia) | Target | |
| WVTR 100°F / 90%RH | | ASTM F 1249 | g H ₂ O / (100in².day) | Target | NA NA |
| TPO ₂ 23°C / 0%UR | | ASTM D 3985 | cm ³ O ₂ / (m ² .dia) | Target | NA |
| OTR 73°F / 0%RH | | ASTM D 3985 | cm3 O2 / (100in2.day) | Target | NA |

1. Acronyms:

MD: Machine Direction | TD: Transverse Direction;
T: Treated Layer | MAT: Matte Layer | BRI: Bright Layer;
NA: Not Applicable;
WAL: Wrap Around Label.

2. Additional:
The restrained information in this datasheet represent typical data, and does not constitute genuine warranty liability as far as the product process and or application. In case of doubts or development of other thicknesses or applications, consult your dealer or send e-mail to: contato@polofilms.com.br.



Opaque White BOPP Film Surface treatment on both sides **Pressure Sensitive Label Application**



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Food Contact Regulations

OPAQUE Family films comply with Mercosul, ANVISA, FDA (Food and Drug Administration) and the European Community legislations for applications involving direct contact with food. Full details are provided in the Declaration of Conformity. Customers intending to use OPAQUE Family films for applications intended to come into contact with food should request a copy of that document from POLO Films.

The MSDS (Material Safety Data Sheet), as well as the evaluation of conformity for contact with food from other legislations are also available upon request. Contact your dealer for any questions.

Storage and Transportation Terms & Conditions

All products are stored and transported in dry, covered and clean environments. It is recommended that storage and transportation take place at temperature around 30°C and 60% relative humidity.

- If the temperature and humidity are not as recommended, the following issues may occur:
 Decreased level of surface treatment, leading to printing and/or lamination difficulties;
 Decreased film transparency;
 Too low CoF, making processing and machinability difficult.

BOPP films are recommended to be kept at operating room temperature for 24 hours before use.

Dimensional Specifications / Product Validity

| Width | Minimum: 0 mm Maximum: 2 mm (from standard width) | | |
|-------------------------------|--|--|--|
| Outer Diameter* | Minimum: 30 mm Maximum: 20 mm (from standard diameter) | | |
| Core | Minimum: 1 mm Maximum: 1 mm (from standard diameter) | | |
| Splices per roll | Maximum: 2 | | |
| % of Splices per order | Maximum: 30% | | |
| Shelf Life (after production) | 6 months | | |

^{*} For other dimensional information, consult your dealer

Polo Films Nomenclature

Specialty Sealing Treatment 23

Unit Weight / Thickness

Expressed in g/m². Used for white/opaque films; Expressed in µm. Used for transparent, matte and metallized films

Technology

T - Tenter | C - Cast | P - BOPET.

Main Feature

WO - White Opaque.

Specialty

PSL - Self-adhesive labels and tags.

Sealing

- 0 Not Sealable;
- 1 Sealing on the Inner Face;
- 2 Sealing on the Outer Face;
- 3 Sealing on both Sides.

Treatment

- 0 No Treatment:
- 1 Treatment on Inner Face;
- 2 Treatment on Outer Face:
- 3 Treatment on both Sides.