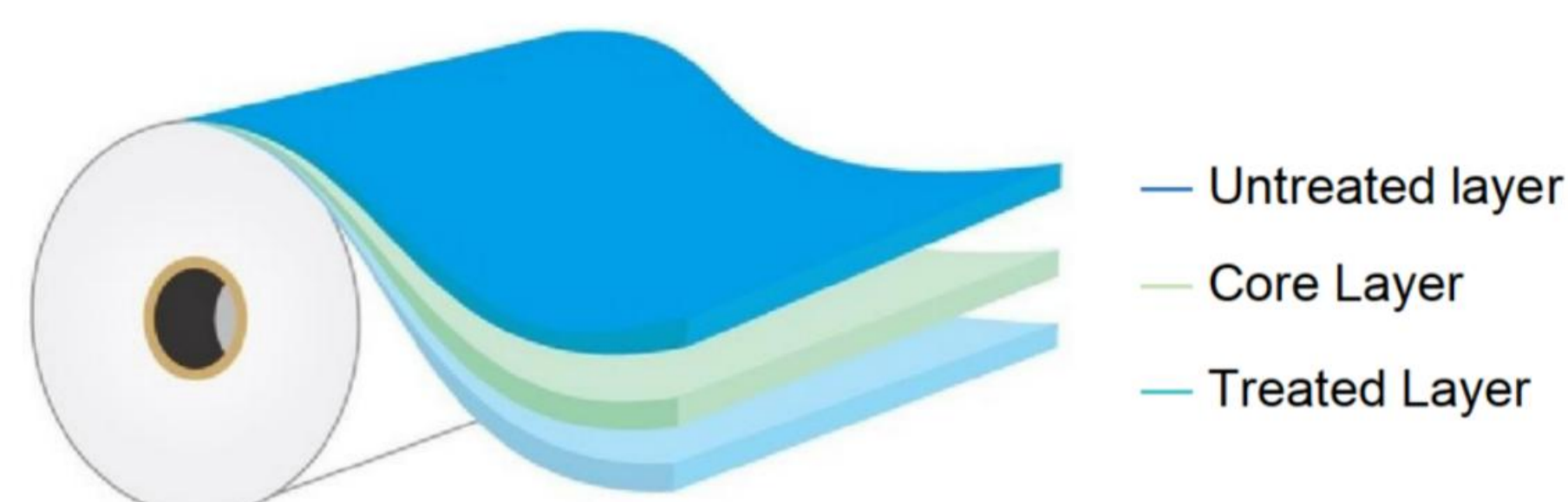


BOPE (Printing Film)

11EP 40μm

Technical Data

Structure



Description

High transparency and gloss with low haze; excellent ink and coating adhesion for precise print registration; long-lasting surface tension (≥ 38 dyn/cm for 6+ months); strong puncture and tensile resistance at low temperatures; low heat shrinkage.

Application

Used as a print layer in flexible packaging for liquid daily products, grains, and pet food. Also serves as a substrate for barrier coatings like PVDC and PVA, and as a mono-layer film suitable for surface printing and hot-cut bag manufacturing.

| Properties | Ref. | Units | ASTM #/ Test Method | 11EP | | | |
|----------------------------------|-------|-------------------------|------------------------|------------|-------|-----------|-------|
| Physical Data | | | | | | | |
| Average Thickness | | micron | D-374-C | 25 | 30 | 35 | 40 |
| | | gauge | | 98 | 118 | 138 | 157 |
| | | mils | | 1.0 | 1.2 | 1.4 | 1.6 |
| Thickness Variation | | %(\pm) | | 5 | | | |
| Density | | g/cc | | 0.935 | | | |
| Average Substance | | g/m | | 22.6 | 27.2 | 31.7 | 36.2 |
| Surface tension(min) | | dynes/cm | D-2578 | ≥ 38 | | | |
| Kinetic COF | UT-UT | | D-1894 | 0.4 | | | |
| Yield | | m ² /Kg | D-4321 | 44.2 | 36.8 | 31.6 | 27.6 |
| | | in ² /lb | D-4321 | 31075 | 25896 | 22196 | 19422 |
| Optical Data | | | | | | | |
| Gloss(45) | | gardner | D-2457 | ≥ 90 | | | |
| Haze | | % | D-1003 | ≤ 4.0 | | | |
| Mechanical Data | | | | | | | |
| Tensile Strength | MD | kg/cm | D-882 | 80-120 | | | |
| | TD | | | 140-200 | | | |
| Elongation at break | MD | % | D-882 | 200-260 | | | |
| | TD | | | 70-100 | | | |
| Puncture resistance | | N/mm | GB/T 37841 | 250-350 | | | |
| Dart impact | | g | GB/T 1410-2008 | 300-350 | | | |
| Thermal Data | | | | | | | |
| Shrinkage (120°C/248F,5 min.) | MD | % | D-1204 | 1.5-4.0 | | | |
| | TD | | | 1.0-3.0 | | | |
| HotTack Strength | | g/15mm | @125°C @257°F | 330 | | | |
| Barrier Data | | | | | | | |
| MVTR(38°C,90%RH) | | g/(m ² •day) | F-1249 | 3.5~6.0 | | 2.6~4.3 | |
| MVTR(10B,90%RH) | | g/100i/day | | 0.23~0.39 | | 0.17~0.28 | |
| Moisture permeability | | g/(m ² •day) | GB/T 9639.1 | ≤ 8 | | | |

The values given in the above table are typical performance data for reference only.
If you have special requirements for product performance indexes, please communicate with business manager.

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