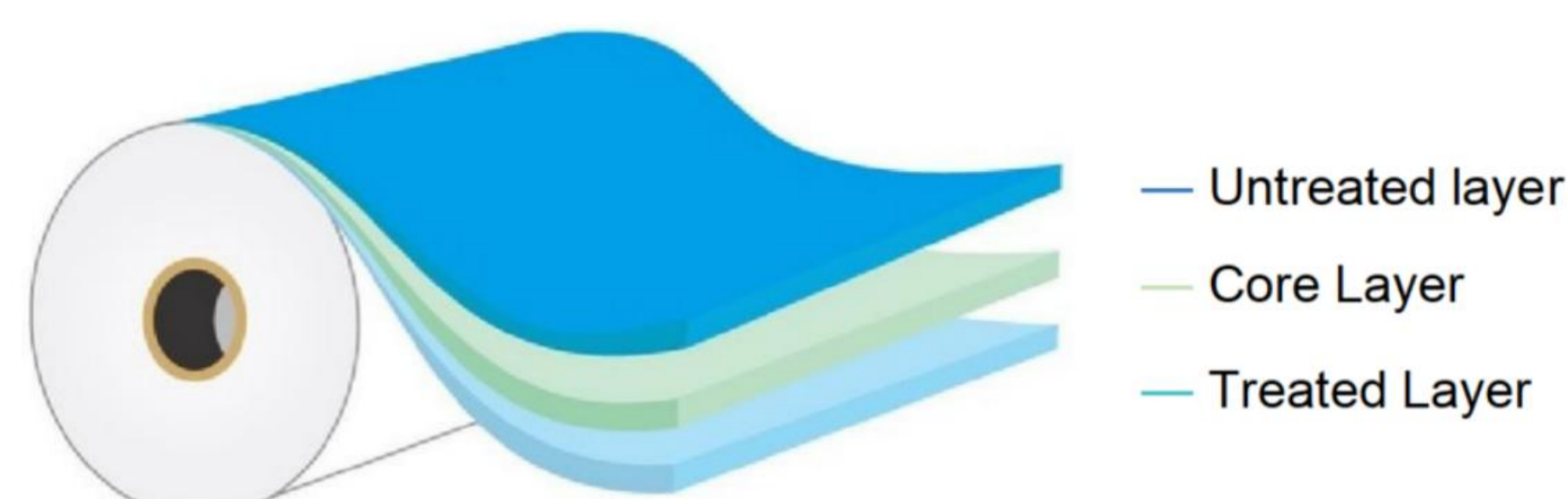


Aluminum Lamination Film

23MK

Technical Data

Structure



Description

Transparent metallizable film with low heat shrinkage, surface tension ≥ 40 dyn/cm; inner-side corona treated with heat-sealable corona side for optimized adhesion and sealing.

Application

After metallization, laminated with woven sacks, non-woven fabrics, or PE films; extensively used in grain packaging, non-woven shopping bags, and courier bags for enhanced durability and barrier performance.

| Properties | Ref. | Units | ASTM #/ Test Method | 23MK | | |
|-----------------------------------|-------|-------------------------|------------------------|------------|-----------|-------|
| Physical Data | | | | | | |
| Average Thickness | | micron | D-374-C | 10.5 | 12 | 15 |
| | | gauge | | 41 | 47 | 59 |
| | | mils | | 0.4 | 0.5 | 0.6 |
| Thickness Variation | | %(±) | | 5 | | |
| Density | | g/cc | | 0.905 | | |
| Average Substance | | g/m | | 9.5 | 10.9 | 13.6 |
| Surface tension (min) | | dynes/cm | D-2578 | ≥ 40 | | |
| Kinetic COF | UT-UT | | D-1894 | 0.4-0.6 | | |
| Yield | | m ² /Kg | D-4321 | 105.2 | 92.1 | 73.7 |
| | | in ² /lb | D-4321 | 73988 | 64739 | 51792 |
| Optical Data | | | | | | |
| Gloss (45) | | gardner | D-2457 | ≥ 95 | | |
| Haze | | % | D-1003 | ≤ 2.0 | | |
| Mechanical Data | | | | | | |
| Tensile Strength | MD | kg/cm | D-882 | 130-170 | | |
| | TD | | | 230-330 | | |
| Elongation at break | MD | % | D-882 | 150-180 | | |
| | TD | | | 45-60 | | |
| Thermal Data | | | | | | |
| Shrinkage (120°C/248F, 5 min.) | MD | % | D-1204 | 3.0-4.0 | | |
| | TD | | | 1.0-2.0 | | |
| Seal Initiation Temp | UT | °C/F | CTM | 120-130 | | |
| SIT Variation (±) | | °C/F | CTM | 5 | | |
| Heat Seal Strength | UT | g/15mm | CTM | ≥ 255 | | |
| HotTack Strength | | g/15 mm | @125°C | 330 | | |
| | | | @257°F | | | |
| Barrier Data | | | | | | |
| MVTR (38°C, 90%RH) | | g/(m ² ·day) | F-1249 | 6.0-10 | 5.3-6.5 | |
| MVTR (10B, 90%RH) | | g/100i/day | | 0.39-0.65 | 0.34-0.42 | |

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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