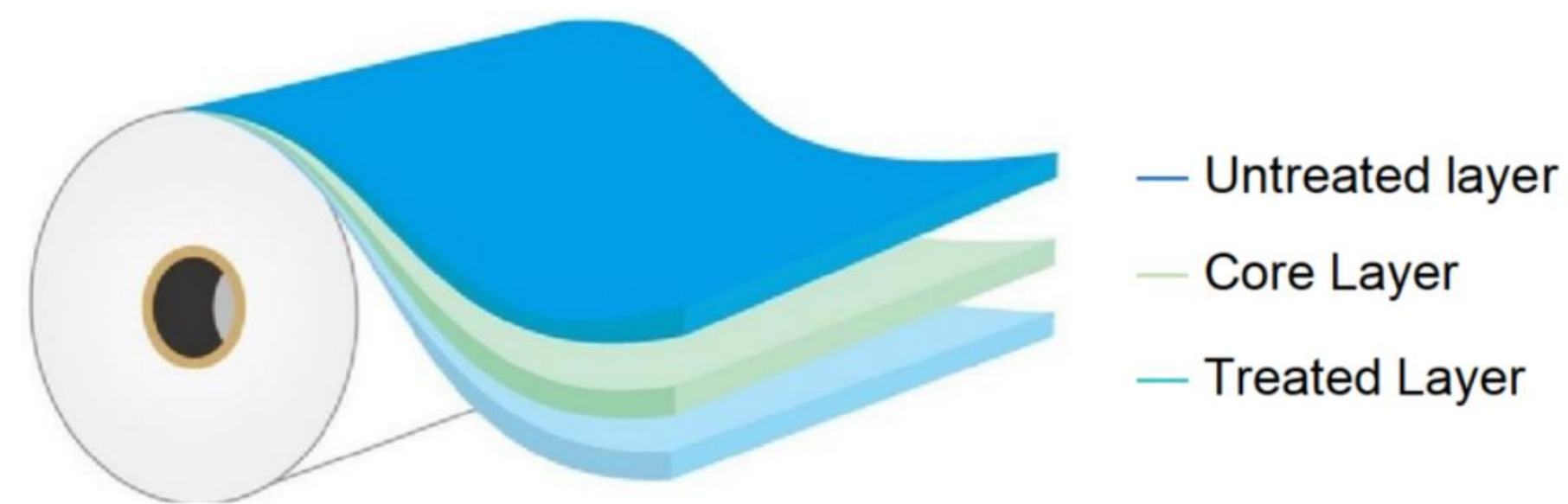


Transparent Tape Film

11T 45 μ m

Technical Data

Structure



Description

Transparent film with high coefficient of friction, featuring inner-side corona treatment to enhance surface energy and adhesion for improved printability and lamination.

Application

Widely used as a base film for adhesive tapes, offering excellent dimensional stability, surface treatment, and compatibility with various adhesive systems.

| Properties | Ref. | Units | ASTM #/ Test Method | 11T | | | | | | | | | | | |
|---|-------|-------------------------|--|------------|-------|-------|-----------|-------|-------|-----------|-------|-------|-----------|-------|--|
| Physical Data | | | | | | | | | | | | | | | |
| Average Thickness | | micron | D-374-C | 18 | 20 | 23 | 24 | 25 | 28 | 29 | 30 | 40 | 45 | 50 | |
| | | gauge | | 71 | 79 | 90 | 94 | 98 | 110 | 114 | 118 | 157 | 177 | 197 | |
| | | mils | | 0.7 | 0.8 | 0.9 | 0.9 | 1.0 | 1.1 | 1.1 | 1.2 | 1.6 | 1.8 | 2.0 | |
| Thickness Variation | | %(\pm) | | 3 | | | | | | | | | | | |
| Density | | g/cc | | 0.910 | | | | | | | | | | | |
| Average Substance | | g/m | | 16.3 | 18.1 | 20.8 | 21.7 | 22.6 | 25.3 | 26.2 | 27.2 | 36.2 | 40.7 | 45.3 | |
| Surface tension(min) | | dynes/cm | D-2578 | \geq 38 | | | | | | | | | | | |
| Kinetic COF | UT-UT | | D-1894 | 0.4-0.6 | | | | | | | | | | | |
| Yield | | m ² /Kg | D-4321 | 61.4 | 55.2 | 48.0 | 46.0 | 44.2 | 39.5 | 38.1 | 36.8 | 27.6 | 24.6 | 22.1 | |
| | | in ² /lb | D-4321 | 43160 | 38844 | 33777 | 32370 | 31075 | 27745 | 26789 | 25896 | 19422 | 17264 | 15537 | |
| Optical Data | | | | | | | | | | | | | | | |
| Gloss(45) | | gardner | D-2457 | \geq 95 | | | | | | | | | | | |
| Haze | | % | D-1003 | \leq 2.0 | | | | | | | | | | | |
| Mechanical Data | | | | | | | | | | | | | | | |
| Tensile Strength | MD | kg/cm | D-882 | 120-160 | | | | | | | | | | | |
| | TD | | | 250-350 | | | | | | | | | | | |
| Elongation at break | MD | % | D-882 | 150-170 | | | | | | | | | | | |
| | TD | | | 50-65 | | | | | | | | | | | |
| Thermal Data | | | | | | | | | | | | | | | |
| Shrinkage (120 $^{\circ}$ C/248F,5 min.) | MD | % | D-1204 | 2.0-4.0 | | | | | | | | | | | |
| | TD | | | 1.0-2.0 | | | | | | | | | | | |
| HotTack Strength | | g/15mm | @125 $^{\circ}$ C @257 $^{\circ}$ F | 330 | | | 350 | | | 380 | | | | | |
| Barrier Data | | | | | | | | | | | | | | | |
| MVTR(38 $^{\circ}$ C,90%RH) | | g/(m ² ·day) | F-1249 | 4.0-5.4 | | | 3.0-4.3 | | | 2.5-4.0 | | | 1.2-3.5 | | |
| MVTR(10B,90%RH) | | g/100i/day | | 0.26-0.35 | | | 0.19-0.26 | | | 0.16-0.26 | | | 0.08-0.23 | | |

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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