



Nylon/Poly Laminates

Description: Nylon laminated to Polyethylene

USES: Packaging meats, seafood, or other products that require excellent oxygen barrier requirements, strength, cleanliness or heat stability requirements.

Note: Sizes, gauges and structures can be customized to meet customer requirements

| Physical Properties | Test Method | Specification | |
|--|--|--|--|
| Yield | 4 mil: 7,566 in ² /lb 6 mil: 5,029 in ² /lb | N/A | |
| Thickness | Micrometer | 4 – 6 mil | |
| Tensile Strength | ASTM-D-882 | MD > 27.5 lbs./in. TD > 27.5 lbs./in. | |
| Elongation | ASTM-D-882 | MD < 150% TD < 150% | |
| Tear Strength, Graves* | ASTM-D-1004 | MD < 1500 grams/mil TD < 1500 grams/mil | |
| Modulus (Elastic)* | ASTM-D-882 | MD: 350,000 – 450,000 PSI TD: 350,000 – 450,000 PSI | |
| Haze* | ASTM-D-1003 | 2.2 – 3.3% | |
| Gloss* | ASTM-D-1003 | 160 – 175 | |
| Mullen Burst | ASTM-D-774 | > 60 PSI | |
| Dart Impact | ASTM-D-1709 | > 520 grams @ 26" drop | |
| Dimensional Stability (320° F/160° C – 5 min) | ASTM-D-1204 | MD: 1.5 - 2.5% Shrinkage TD: .2 - .7% Shrinkage | |
| Coefficient of Friction (Kinetic)* Film to Stainless Steel | ASTM-D-1894 | .18 - .27 | |
| Film to Film | | .60 - .90 | |
| Oxygen Transmission Rate* @ 77° F (25° C)/ 0% RH | ASTM-D-3985 | 3.0 – 4.0 cc/100 in ² /day | Heat Sealing Temperature: 250-375 F Time: .5 – 3.5 seconds Pressure: 30 – 70 PSI |
| Water Vapor Transmission Rate* @ 100° F (37.8° C) / 100% RH | ASTM-F-1249 | 20 – 23 grams/100 in ² /day | |
| Surface Tension* | ASTM-D-5946 | Nylon: Treated > 56 dynes/cm Nylon: Untreated > 50 dynes/cm PE: Treated > 40 dynes/cm PE: Untreated > 32 dynes/cm | |
| Blocking Sizes Available | | None As specified by customer | |

*The values shown above were developed from random samples taken from production material we believe to be typical for the product. However, actual values may vary somewhat from those depicted here and PST makes no warranty, expressed or implied, as to the suitability of these materials for any specific use. Customers should determine product suitability based upon their own initial criteria. Nothing herein is to be taken as a license to operate under or recommendation to infringe upon any patent.