

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.