



Bennett & Bennett Premium Nylon Film A Polyamide Homopolymer

Bennett & Bennett Nylon cleanroom packaging film is the ideal answer for challenges involving toughness, cleanliness and maximum resistance to abrasion. Nylon used for cleanroom packaging is an unplasticized, FDA-approved, food-grade clear film. Nylon is a hydrophilic (water-sensitive) material; moisture acts as the plasticizer. The higher the moisture content of the film, the more flexible and rubbery it behaves. Nylon is very low in ionic contamination.

Nylon offers the lowest levels of particulate count of any clean packing film. As such, nylon is used in applications with a high sensitivity to contamination. With its high abrasion resistance, Nylon is ideal for packing sharp or hard items that otherwise would cause a softer material to contaminate the product.

Standard items manufactured from Bennett & Bennett Nylon are clean to **NASA JSCM 5322 (Level 50)**.

Bennett & Bennett Nylon is available in widths from 2" to 60" with standard lengths of 500 and 1000 feet. Nylon bags are available in flat sizes from 2" x 1.5" to 36" x 80" (gusseted bags available by custom order only). Nylon sheets are available from 1" x 1.5" to 36" x 80". Nylon center-fold sheeting is available from 1.5" to 60" in standard 500' and 1000' lengths.

Does your specification require a nylon film with **anti-static** properties?
Bennett & Bennett recommends Anti-Static Nylon.

PHYSICAL PROPERTIES

Material:	Heat Stabilized Bennett & Bennett Nylon, a polyamide homopolymer.
Available As:	Lay-Flat Tubing, Sheets, Centerfold Sheeting, Lay-Flat or Gusseted bags
Clarity:	Transparent.
Thickness:	.002" (.004" available as special order).



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RESISTANCE RATINGS		
Strong Acids	D54 3	Poor
Strong Alkalize	D54 3	Fair
Grease and Oil	D72 2	Good
Organic Solvents	D54 3	Good

Film Properties:	ASTM Method	Units	Typical Value
Density	D792	g/cm	1.13
Tensile Strength (break)	D882	PSI	
MD			9000
TD			18000
Elongation (break)	D882	%	
MD			250
TD			550
Water Vapor Transmission Rate:	E96(B)	gr-mil/100sq.in./24hr@23°C	16-22
Oxygen Transmission Rate:	D1434	cc-mil/100sq.in./24hr@25°C	2.6



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