

CAPRAN[®] 526 Heat-Stabilized Nylon Film Blown Tubular Film

Revised 9/11/03

Description	Effective Date 2/26/01
<p>CAPRAN 526 is a blue tinted, heat-stabilized blown film produced from modified nylon resin. It is available in widths up to 60 inches as layflat tubing and 120 inches as slit tubing. Thicknesses are 2.0 and 3.0 mils. Blown film is recommended as bagging film for advanced composite fabrication and other high temperature applications where softness, workability or anti-static characteristics are essential. In addition, CAPRAN 526 has excellent heat stability and resistance to pinholing and can be used at temperatures up to 450°F (232°C) for typical composite cure cycle times.</p>	

Physical Properties

Below is a tabulation of physical characteristics as measured on 2.0 mil films at various conditions.

Physical Properties (72°F --50% R.H.)		
	Typical Value	Test Method
Tensile strength (psi)	11,000	ASTM D882
Yield strength (psi)	9,500	ASTM D882
Elongation (%)	300	ASTM D882
Tear strength (gms)	60	ASTM D1922
Shrinkage (%) (0.5 hrs. at 300°F) (149°C)	Less than 1%	ASTM D1204
Flammability	Self-extinguishing, due to melting	ASTM D568
Crystalline melt point	491 (°F) 255 (°C)	DSC

CAPRAN 526 is used at a variety of temperatures and exposure times. Heat-aging data is available on request.

Standard Thickness	Yield			
	(ln ² /lb)	(ft ² /lb)	(cm ² /kg)	(m ² /kg)
2 mil (50 microns)	12,238	85.0	173,800	17.4
3 mil (76 microns)	8,157	56.6	115,800	11.6

Storage and Handling

CAPRAN 526 is a hydrophilic, or water-sensitive, material. Moisture and water act as plasticizers. The higher the moisture content of the film, the more flexible and rubbery it behaves. The lower the moisture content, the stiffer and tougher it behaves. In vacuum bag molding, especially when making articles with deep draws, a bag material that can be readily drawn or stretched is required. The level of moisture content in **CAPRAN 526** at time of use is therefore an important criterion for successful performance.

When shipped, **CAPRAN 526** is preconditioned to a moisture level which provides optimum handling characteristics at time of use. In order to preserve these optimum characteristics, it is recommended that the film, after being removed from the shipping container, be either placed in a protective box or covered with the polyethylene wrap in which it is shipped. Dry environments (common in winter) tend to dehydrate materials such as **CAPRAN 526**. Ideal storage is at 70 - 75° F and 45 - 55% RH

Order & Sales Information

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The values presented in this data sheet are typical values and are not to be interpreted as product specifications.

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