

# AdvanSix Inc. Capran<sup>®</sup> 512

Capran<sup>®</sup> 512 is a clear heat stabilized blown film produced from low lactam nylon 6 resin. It is recommended as a bagging film for advanced composite fabrication and other high temperature applications where softness and workability are essential. Capran<sup>®</sup> 512 has excellent heat stability and resistance to pin-holing. Capran<sup>®</sup> 512 is available in sheet, tube and V-sheet in widths ranging from 48" to 80".

Product Specifications		
Thickness (ASTM D6988)		Yield (calculated)
Average	Single Point Minimum	
2.00 mils (50.8 microns) ± 12%	1.70 mils (43.2 microns)	12,262 in <sup>2</sup> /lb (17.4 m <sup>2</sup> /kg) ± 12%
3.00 mils (76.2 microns) ± 12%	2.55 mils (64.8 microns)	8,176 in <sup>2</sup> /lb (11.6 m <sup>2</sup> /kg) ± 12%

Properties at 73°F(23°C) - 50%RH	Typical Value		Test Method
	English	Metric	
The properties presented in this data table are typical values and are not to be interpreted as product specifications.			
Tensile Strength @ break	14,000 psi	96 MPa	ASTM D882
Elongation @ break	415%		ASTM D882
Modulus, Secant	80,000 psi	552 MPa	ASTM D882
Melting Point	424°F	218°C	DSC
Maximum Recommended Use Temperature <sup>(1)</sup>	400°F	204°C	-----

Capran<sup>®</sup> 512, like all nylon films, is a hydrophilic or water-sensitive material. Moisture and water act as plasticizers. The higher the moisture content of the film, the more flexible it becomes. The lower the plasticizer content, the stiffer it becomes. The level of moisture content at time of use is an important factor for successful performance.

NOTE: (1) The maximum recommended use temperature is a function of the duration at maximum temperature and is process specific.

## Contact AdvanSix

To learn more about the benefits of Capran<sup>®</sup> films, visit [Advan6.com](http://Advan6.com) or [Capran.com](http://Capran.com) or call: **1-844-890-8949** (toll free, U.S./Can.) **+1-973-455-3000** (international)

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