

NYLON SOLUTIONS

Capran® 512 Clear, Heat-stabilized Blown Nylon 6 Film

Description

Capran® 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® 512 film has excellent heat stability and resistance to pin-holing, and is available in sheet, tube and V-sheet in widths ranging from 48" to 80".

Product Specifications		
Thickness (ASTM D-6988)		Yield (calculated)
Average	Single Point Minimum	
2.00 mils (50.8 microns) ± 12%	1.70 mils (43.2 microns)	12,262 in ² /lb (17.4 m ² /kg) ± 12%
3.00 mils (76.2 microns) ± 12%	2.55 mils (64.8 microns)	8,176 in ² /lb (11.6 m ² /kg) ± 12%

Properties @ 73°F (22.7°C), 50% RH	Typical Values		Test Method
	English	Metric	
Tensile Strength @ Break	14,000 psi	96 MPa	ASTM D-882
Elongation @ Break	415%		ASTM D-882
Modulus, Secant	80,000 psi	552 MPa	ASTM D-882
Melting Temperature (T _m)	424°F	218°C	DSC
Maximum Recommended Use Temperature ¹	400°F	204°C	—

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

Capran® 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.

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

Contact AdvanSix

To learn more about the benefits of Capran® films, visit AdvanSix.com/NylonSolutions or call: **1-844-890-8949** (toll free, U.S./Can.) **+1-973-526-1800** (international)

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