

AdvanSix Inc. Capran[®] 1200M

CAPRAN[®] 1200M is a 0.47 mil (12 micron) biaxially oriented nylon 6 film with a polymeric coating that enhances adhesion to a variety of printing inks, coatings, and adhesives. "M" coated products are also excellent for metallization processes.

Product Quality Specifications	Target		Test Method	Tolerance
	English	Metric		
Average Thickness	0.472 mil	12 microns	-----	± 5%
Basis Weight	8.471 lbs/ream	13.79 g/m ²	calculated	± 5%
Yield	51,000 in ² /lb	72.52 m ² /kg	calculated	± 5%
Dimensional Stability, TD	1.0 %		5 min @ 160°C	2.5% max
Dimensional Stability, MD	2.0%			3.0% max
Haze	3.0%		ASTM D1003	4.0% max
Surface Tension, coated side	58 dynes/cm		ASTM D2578	56 dynes/cm min

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	MD TD	34,000-42,000 psi 34,000-42,000 psi	234-290 MPa 245-290 MPa	ASTM D882
Elongation @ break	MD	60-90%		ASTM D882
TD		60-90%		
Modulus, Secant	MD TD	300,000-400,000 psi 300,000-400,000 psi	2069-2758 MPa 2069-2758 MPa	ASTM D882
Tear Strength, Graves	MD TD	1000-1500 gf/mil 1000-1500 gf/mil		ASTM D1004
Coefficient of Friction, Kinetic Coated to Film Film to Stainless Steel		0.60-0.90 0.20-0.30		ASTM D1894
Surface Tension, untreated side		> 50 dynes/cm		ASTM D2578
Oxygen Transmission Rate @77°F (25°C) / 0%RH		3.5-4.5 cc/100in ² /day	54-70 cc/m ² /day	ASTM D3985
Water Vapor Transmission Rate @100°F(37.8°C) / 100%H		23-26 gms/100in ² /day	357-403 gms/m ² /day	ASTM F1249

Contact AdvanSix

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

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