

# AdvanSix Inc. Capran® 1200RT

Capran® 1200RT is a 0.47 mil (12 micron) biaxially oriented nylon 6 film suggested for retort applications, providing balanced physical properties and good impact strength. The film has a lower average haze, uniform crystallinity, and one step balanced (MD/TD) orientation.

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 <sup>2</sup>	calculated	± 5%
Yield	51,000 in <sup>2</sup> /lb	72.52 m <sup>2</sup> /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, treated 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 234-290 MPa	ASTM D882
Elongation @ break	MD TD	60-90% 60-90%		ASTM D882
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		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 <sup>2</sup> /day	54-70 cc/m <sup>2</sup> /day	ASTM D3985
Water Vapor Transmission Rate @100°F(37.8°C) / 100%H		23-26 gms/100in <sup>2</sup> /day	357-403 gms/m <sup>2</sup> /day	ASTM F1249

## Contact AdvanSix

To learn more about the benefits of Capran® 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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