

# MarvelSeal® Ultra2000

## Structure: Barrier Film/LAM/Film/LAM/HS Film

Meets or exceeds all of the requirements for MIL-PRF-22191F Type 1 Class I. MarvelSeal® Ultra2000 is heat sealable and can be used for applications requiring superior tear and puncture resistance as well as protection from light, air and moisture vapor. Ultra2000 is best used for materials such as jet engine bearings or other sensitive items requiring periodic inspection during storage. Ultra2000 bonds well to itself, foil and other substrates to provide a superior overall packaging solution.

Property	Typical Value	Required Value	Unit of Measure	Test Method
Caliper	0.0049	<0.006	inches	TAPPI T411
WVTR	<0.017	<0.02	g/100sq in/24hrs	ASTM F-1249
Oil Resistance	Passed	No delamination, swelling, embrittlement or leakage	---	MIL-STD 3010A/3015
Puncture Resistance	20	>10.0	lbs	MIL-STD 3010A/3015
Breaking Strength	72.8	> 50	lb/in	MIL-PRF-131K 4.6.5
Seal Strength	Passed	No separation		
Seam Strength	18	n/a	lb/in	350°F/40psi/1sec
Tensile (MD)	34	n/a	lb/in	TAPPI T494
Tensile (CD)	30	n/a	lb/in	TAPPI T494
Tear (MD)	148	n/a	grams	ASTM 689
Tear (CD)	111	n/a	grams	ASTM 689
Temperature Range	-20 - 160		degrees Fahrenheit	
Yield	4843	n/a	sq in/lb	TAPPI T-411
Standard Sizes	36"x1000ly			

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 **MidSouth**  
PACKAGING Inc.

P.O. Box 36216  
 Pensacola, FL 32516

Ph: 850.898.3797  
 Fx: 901.276.0294

[sales@midsouthpackaging.com](mailto:sales@midsouthpackaging.com)