

MonoSol® AF A127

Polyvinyl Alcohol

MonoSol, LLC

Message:

MonoSol AF A127 is a PVOH based thermoplastic film, soluble in hot water and manufactured using MonoSol AF's proprietary blown film technology. MonoSol AF A127 is a special grade of PVOH hot water-soluble packaging film with excellent cold water resistance and used for laundry bags and maternity units where the linen is significantly contaminated with body fluids. It is soluble in water above 65 C with agitation. Available thickness range is 22 micron (0.9 mil) to 50 micron (2.0 mil).

General Information			
Features	Biodegradable		
	Low Temperature Resistant		
	Water Soluble		
Uses	Film		
	Laundry Bags		
	Sanitary Products		
Forms	Film		
Physical	Nominal Value	Unit	
Moisture Content (23°C) ¹	5.4	wt%	
Solubility			
Disintegration : 60°C, 22.9 µm ²	13.0	sec	
Disintegration : 70°C, 22.9 µm ³	1.0	sec	
Dissolution : 60°C, 22.9 µm ⁴	600.0	sec	
Dissolution : 70°C, 22.9 µm ⁵	17.0	sec	
Yield (38.1 µm)	19.9	m ² /kg	ASTM D4321
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	22	µm	
Film Thickness - Recommended / Available	25 µm, 38 µm, 51 µm, and 76 µm		
Secant Modulus			ASTM D882, ISO 527-3
10%, MD : 22 µm	159	MPa	
100%, MD : 22 µm	35.2	MPa	
10%, TD : 22 µm	117	MPa	
100%, TD : 22 µm	20.7	MPa	
Tensile Strength			
MD : Break, 22 µm	35.9	MPa	ASTM D882
TD : Break, 22 µm	34.5	MPa	ASTM D882
MD : 22 µm	35.9	MPa	ISO 527-3
TD : 22 µm	34.5	MPa	ISO 527-3
Tensile Elongation			ASTM D882, ISO 527-3

MD : Break, 22 μm	110	%	
TD : Break, 22 μm	340	%	
Dart Drop Impact (38 μm)	390	g	ASTM D1709, DIN 53433
Elmendorf Tear Strength - MD			
--	1100	g	ASTM D1922
--	0.11	N	ISO 6383-2

NOTE			
1.	50%RH		
2.	Distilled Water (MSTM 205)		
3.	Distilled Water (MSTM 205)		
4.	Distilled Water (MSTM 205), 75% dissolved		
5.	Distilled Water (MSTM 205)		

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