

MonoSol® AF A200

Polyvinyl Alcohol

MonoSol, LLC

Message:

MonoSol AF A200 is a PVOH based thermoplastic film, soluble in hot water and manufactured using MonoSol AF's proprietary blown film technology. MonoSol AF A200 is a typical grade of PVOH hot water-soluble film. It is soluble above 60°C with agitation. It has limited cold wet strength and is primarily used for hospital laundry bags where the bulk of the linen is dry. It can also be used on some VFFS packaging machinery for chemical portion packaging applications where the pack is being put into an environment with water above 60°C with agitation. Available thickness range is 20 micron (0.8 mil) to 80 micron (3.1 mil).

General Information			
Features	Biodegradable		
	Water Soluble		
Uses	Film		
	Laundry Bags		
	Packaging		
Forms	Film		
Physical	Nominal Value	Unit	
Moisture Content (23°C) ¹	6.7	wt%	
Solubility ²			
Disintegration : 60°C, 20.0 µm	1.0	sec	
Disintegration : 70°C, 20.0 µm	1.0	sec	
Dissolution : 60°C, 20.0 µm	430.0	sec	
Dissolution : 70°C, 20.0 µm	300.0	sec	
Yield (20.0 µm)	40.1	m ² /kg	ASTM D4321
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Film Thickness - Recommended / Available	20 µm to 80 µm		
Secant Modulus			ASTM D882, ISO 527-3
10%, MD : 20 µm	238	MPa	
100%, MD : 20 µm	64.8	MPa	
10%, TD : 20 µm	290	MPa	
100%, TD : 20 µm	45.5	MPa	
Tensile Strength			
MD : Break, 20 µm	71.7	MPa	ASTM D882
TD : Break, 20 µm	77.9	MPa	ASTM D882
MD : 20 µm	71.7	MPa	ISO 527-3
TD : 20 µm	77.9	MPa	ISO 527-3
Tensile Elongation			ASTM D882, ISO 527-3

MD : Break, 20 µm	130	%	
TD : Break, 20 µm	230	%	
Dart Drop Impact (20 µm)	290	g	ASTM D1709, DIN 53433
Elmendorf Tear Strength			
MD : 20 µm	300	g	ASTM D1922
TD : 20 µm	300	g	ASTM D1922
MD : 20 µm	0.031	N	ISO 6383-2
TD : 20 µm	0.031	N	ISO 6383-2
NOTE			
1.	50%RH		
2.	Distilled Water (MSTM 205)		

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