

MonoSol® M3030

Polyvinyl Alcohol

MonoSol, LLC

Message:

MonoSol M3030 is a PVOH based thermoplastic film, soluble in cold water and manufactured using MonoSol's proprietary solution cast technology. MonoSol M3030 film has been engineered specifically for powder detergent packaging. Like M8630 film, M3030 has been specially formulated to be resistant to alkaline compounds. Standard thicknesses are 30 micron (1.2 mil), 38 micron (1.5 mil) and 51 micron (2.0 mil).

General Information			
Features	Alkali Resistant		
	Biodegradable		
	Water Soluble		
Uses	Film		
	Packaging		
Forms	Film		
Physical	Nominal Value	Unit	
Moisture Content (23°C) ¹	6.9	wt%	
Solubility ²			
Disintegration : 10°C, 38.1 µm	6.0	sec	
Disintegration : 24°C, 38.1 µm	4.0	sec	
Dissolution : 10°C, 38.1 µm	17.0	sec	
Dissolution : 24°C, 38.1 µm	9.0	sec	
Yield (38.1 µm)	19.9	m ² /kg	ASTM D4321
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Film Thickness - Recommended / Available	30 µm, 38 µm, and 51 µm		
Secant Modulus - 100%, MD	11.7	MPa	ASTM D882, ISO 527-3
Tensile Strength - MD			
Break	37.9	MPa	ASTM D882
--	37.9	MPa	ISO 527-3
Tensile Elongation - MD (Break)	380	%	ASTM D882, ISO 527-3
Elmendorf Tear Strength - MD			
--	1300	g	ASTM D1922
--	0.13	N	ISO 6383-2
NOTE			
1.	50%RH		
2.	Distilled Water (MSTM 205)		

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