

MonoSol® M8534

Polyvinyl Alcohol

MonoSol, LLC

Message:

MonoSol M8534 is a PVOH based thermoplastic film, soluble in cold water and manufactured using MonoSol's proprietary solution cast technology. MonoSol M8534 provides resistance to organic solvents, rapid solubility, resistance to cold-cracking, excellent heat seal characteristics, compatibility with alkaline formulations and some resistance to borates which can create insolubility. This film can be converted in a wide range of ambient conditions. This film is typically used for Agrochemical packaging, including gel, powder and granular formulations. Standard thicknesses are 38 micron (1.5 mil), 51 micron (2.0 mil) and 76 micron (3.0 mil).

General Information			
Features	Biodegradable		
	Good Crack Resistance		
	Good Heat Seal		
	Solvent Resistant		
	Water Soluble		
Uses	Film		
	Packaging		
Forms	Film		
Physical	Nominal Value	Unit	
Moisture Content (23°C) ¹	8.4	wt%	
Solubility ²			
Disintegration : 10°C, 38.1 µm	6.0	sec	
Disintegration : 24°C, 38.1 µm	3.0	sec	
Dissolution : 10°C, 38.1 µm	20.0	sec	
Dissolution : 24°C, 38.1 µm	15.0	sec	
Yield (38.1 µm)	19.9	m ² /kg	ASTM D4321
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available	38 µm, 51 µm and 76 µm		
Secant Modulus - 100%, MD	10.3	MPa	ASTM D882, ISO 527-3
Tensile Strength - MD			
Break	27.6	MPa	ASTM D882
--	27.6	MPa	ISO 527-3
Tensile Elongation - MD (Break)	470	%	ASTM D882, ISO 527-3
Dart Drop Impact (38 µm)	800	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)

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Recommended distributors for this material

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