

# MonoSol® M8440

Polyvinyl Alcohol

MonoSol, LLC

## Message:

MonoSol M8440 is a PVOH based thermoplastic film, soluble in cold water and manufactured using MonoSol's proprietary solution cast technology. MonoSol M8440 film has been specially formulated to be completely resistant to alkaline hydrolysis up to 14 pH. Coupling its rapid cold water solubility and compatibility to alkaline compounds, M8440 film is an excellent candidate for Detergent and Disinfectant unit dose packaging. It has good cold crack resistance and can be easily converted on all conventional packaging machines. M8440 is a slightly stiffer film than MonoSol M8630.

General Information			
Features	Alkali Resistant		
	Biodegradable		
	Good Crack Resistance		
	Low Temperature Resistant		
	Water Soluble		
Uses	Film		
	Packaging		
Forms	Film		
Physical	Nominal Value	Unit	
Moisture Content (23°C) <sup>1</sup>	7.9	wt%	
Solubility <sup>2</sup>			
Disintegration : 10°C, 88.9 µm	46.0	sec	
Dissolution : 10°C, 88.9 µm	74.0	sec	
Yield (88.9 µm)	8.53	m <sup>2</sup> /kg	ASTM D4321
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	89	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)	540	%	ASTM D882, ISO 527-3
Dart Drop Impact	2300	g	ASTM D1709, DIN 53433
Elmendorf Tear Strength - MD			
--	900	g	ASTM D1922
--	0.092	N	ISO 6383-2
NOTE			
1.	50%RH		
2.	Distilled Water (MSTM 205)		

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