

MonoSol® M1030 38μ

Polyvinyl Alcohol

MonoSol, LLC

Message:

MonoSol M1030 is a PVOH based thermoplastic film, soluble in hot water and manufactured using MonoSol's proprietary solution cast technology. MonoSol M1030 is a hot water-soluble general purpose PVOH film. With high elongation, M1030 performs well in molding and vacuum bag operations. The maximum use temperature is 275 F (135 C). Standard thicknesses are 38 micron (1.5 mil), 51 micron (2.0 mil) and 76 micron (3.0 mil).

General Information			
Features	Biodegradable		
	Water Soluble		
Uses	Film		
	Vacuum Bagging Film		
Forms	Film		
Physical	Nominal Value	Unit	
Moisture Content (23°C, 38.1 μm) ¹	6.0	wt%	
Solubility ²			
Disintegration : 60°C, 38.1 μm	10.0	sec	
Dissolution : 60°C, 38.1 μm	32.0	sec	
Yield (23°C, 38.1 μm) ³	20.6	m ² /kg	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	μm	
Film Thickness - Recommended / Available	38 μm, 51 μm, and 76 μm		
Secant Modulus			
10%, MD : 38 μm	57.9	MPa	ASTM D882
100%, MD : 38 μm	10.3	MPa	ASTM D882
10%, MD : 23°C, 38 μm	57.9	MPa	ISO 527-3
100%, MD : 23°C, 38 μm	10.3	MPa	ISO 527-3
Tensile Strength - MD			
Break, 38 μm	21.4	MPa	ASTM D882
23°C, 38 μm	21.4	MPa	ISO 527-3
Tensile Elongation - MD			
Break, 38 μm	360	%	ASTM D882
Break, 23°C, 38 μm	360	%	ISO 527-3
Elmendorf Tear Strength - MD			
38 μm	1100	g	ASTM D1922
38 μm	0.11	N	ISO 6383-2
Thermal	Nominal Value	Unit	
Continuous Use Temperature	135	°C	

NOTE

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|----|----------------------------|
| 1. | 50%RH |
| 2. | Distilled Water (MSTM 205) |
| 3. | density at 1.28 g/cc |

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