

MonoSol® M7030

Polyvinyl Alcohol

MonoSol, LLC

Message:

MonoSol M7030 is a PVOH based thermoplastic film, soluble in cold water and manufactured using MonoSol's proprietary solution cast technology. MonoSol M7030 is a typical grade of PVOH cold water-soluble packaging film and is the film choice when there are no special requirements or contraindications. This tough film has good solubility, machinability, toughness, cold crack resistance and can be converted on all conventional packaging machines. Typical applications include Agrochemicals, Detergents, Disinfectants, Pigments and Additive Unit Dose Packaging. Standard thicknesses are 38 micron (1.5 mil) and 76 micron (3.0 mil).

General Information			
Features	Biodegradable		
	Good Crack Resistance		
	Good Toughness		
	Low Temperature Resistant		
	Machinable		
	Water Soluble		
Uses	Film		
	Industrial Applications		
	Packaging		
Forms	Film		
Physical	Nominal Value	Unit	
Moisture Content (23°C) ¹	6.3	wt%	
Solubility ²			
Disintegration : 10°C, 38.1 µm	16.0	sec	
Disintegration : 24°C, 38.1 µm	9.0	sec	
Dissolution : 10°C, 38.1 µm	32.0	sec	
Dissolution : 24°C, 38.1 µm	24.0	sec	
Yield (38.1 µm)	19.9	m ² /kg	ASTM D4321
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available	38 µm and 76 µm		
Secant Modulus - 100%, MD	15.9	MPa	ASTM D882, ISO 527-3
Tensile Strength - MD			
Break	41.4	MPa	ASTM D882
--	41.4	MPa	ISO 527-3
Tensile Elongation - MD (Break)	410	%	ASTM D882, ISO 527-3
Dart Drop Impact	780	g	ASTM D1709, DIN 53433
Elmendorf Tear Strength - MD			
--	1200	g	ASTM D1922

--	0.12	N	ISO 6383-2
NOTE			
1.	50%RH		
2.	Distilled Water (MSTM 205)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

