

MonoSol® M7031

Polyvinyl Alcohol

MonoSol, LLC

Message:

MonoSol M7031 is a PVOH based thermoplastic film, soluble in cold water and manufactured using MonoSol's proprietary solution cast technology. MonoSol M7031 is identical to M7030 except for the small amount inclusion of inert fillers to provide a "high slip" (low tack and COF) non-blocking surface. M7031 is more readily converted in a wide range of ambient conditions and preformed bags are more easily handled. Also, fine particulates do not adhere to the film surface during vertical, form, fill and seal packaging. Standard thicknesses are 38 micron (1.5 mil) and 76 micron (3.0 mil).

General Information			
Additive	Antiblock		
	High Slip		
Features	Antiblocking		
	Biodegradable		
	High Slip		
	Water Soluble		
Uses	Bags		
	Film		
	Packaging		
Forms	Film		
Physical	Nominal Value	Unit	
Moisture Content (23°C) ¹	5.8	wt%	
Solubility ²			
Disintegration : 10°C, 38.1 µm	12.0	sec	
Disintegration : 24°C, 38.1 µm	7.0	sec	
Dissolution : 10°C, 38.1 µm	30.0	sec	
Dissolution : 24°C, 38.1 µm	20.0	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	730	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

