

# Cellophane™ 430MS

Regenerated Cellulose

Innovia Films Ltd.

## Message:

Regenerated cellulose film (RCF), coated on both sides with nitrocellulose by a solvent process.

General Information			
Features	Antistatic		
	Biodegradable		
	Deadfold and Twist Retention		
	Flavor & Aroma Barrier		
	Gas Barrier		
	Grease Resistant		
	Heat Sealable		
	High Clarity		
	High Gloss		
	Moisture Barrier		
	Oil Resistant		
	Renewable Resource Content		
Uses	Film		
	Packaging		
	Tape		
Agency Ratings	EU 2004/19/EC		
Appearance	Clear/Transparent		
	Colors Available		
Forms	Film		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.20		
vs. Itself - Static	0.25		
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
1% Secant, MD : 30 μm	> 3000	MPa	
1% Secant, TD : 30 μm	> 1500	MPa	
Tensile Strength			ASTM D882
MD : Yield,30 μm	125	MPa	
TD : Yield,30 μm	70.0	MPa	

Tensile Elongation			ASTM D882
MD : Break, 30 $\mu\text{m}$	22	%	
TD : Break, 30 $\mu\text{m}$	70	%	
Seal Strength <sup>1</sup>	1.8	N/mm	Internal Method
Seal Initiation Temperature <sup>2</sup> (30 $\mu\text{m}$ )	90.0 to 160	$^{\circ}\text{C}$	Internal Method
Oxygen Transmission Rate (Wet) <sup>3</sup> (23 $^{\circ}\text{C}$ , 30 $\mu\text{m}$ , 0.0% RH)	3.00	$\text{cm}^3/\text{m}^2/24 \text{ hr}$	ASTM F1927
Water Vapor Transmission <sup>4</sup>	20	$\text{g}/\text{m}^2/24 \text{ hr}$	ASTM E96
Film Gauge	29.9	$\mu\text{m}$	Internal Method
Yield (29.9 $\mu\text{m}$ )	23.3	$\text{m}^2/\text{kg}$	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45 $^{\circ}$ , 29.9 $\mu\text{m}$ )	90		ASTM D2457
Haze <sup>5</sup> (29.9 $\mu\text{m}$ )	4.0	%	ASTM D1003
NOTE			

1.	$\text{g(f)}/38\text{mm}$ , 135 $^{\circ}\text{C}$ , 0.5 secs, 69 $\text{kN}/\text{m}^2$
2.	0.5s dwell, 69 $\text{kN}/\text{m}^2$
3.	RH: 0 to 5%
4.	38 $^{\circ}\text{C}$ , 90%RH
5.	2.5 $^{\circ}$ wide angle

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