

# NatureFlex™ NP 110

Regenerated Cellulose

Innovia Films Ltd.

## Message:

NatureFlex™ NP 110 is a Regenerated Cellulose product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of NatureFlex™ NP 110 include bags/liners, coating applications and film. Characteristics include:  
Eco-Friendly/Green  
Clarity  
High Gloss

General Information			
Features	Anti-fogging		
	Antistatic		
	Biodegradable		
	Compostable		
	Deadfold and Twist Retention		
	Excellent Printability		
	Flavor & Aroma Barrier		
	Gas Barrier		
	High Clarity		
	High Gloss		
	Renewable Resource Content		
Uses	Bags		
	Film		
	Laminates		
Agency Ratings	ASTM D 6400		
	EN 13432		
Appearance	Clear/Transparent		
Forms	Film		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction <sup>1</sup>			ASTM D1894
vs. Itself - Dynamic	0.30		
vs. Itself - Static	0.50		
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
1% Secant, MD : 28 µm	> 2000	MPa	
1% Secant, TD : 28 µm	> 1000	MPa	
Tensile Strength			ASTM D882

MD : Yield,28 μm	124	MPa	
TD : Yield,28 μm	68.9	MPa	
Tensile Elongation			ASTM D882
MD : Break, 28 μm	22	%	
TD : Break, 28 μm	70	%	
Oxygen Transmission Rate (Wet) <sup>2</sup> (24°C, 28 μm, 0.0% RH)	2.95	cm <sup>3</sup> /m <sup>2</sup> /24 hr	ASTM F1927
Water Vapor Transmission <sup>3</sup>	1500	g/m <sup>2</sup> /24 hr	ASTM E96
Film Gauge	27.7	μm	Internal Method
Yield (27.7 μm)	25.0	m <sup>2</sup> /kg	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 27.7 μm)	100		ASTM D2457
Haze <sup>4</sup> (27.7 μm)	3.0	%	ASTM D1003
NOTE			
1.	Thickness: 1.09 mil		
2.	RH: 0 to 5%		
3.	100°F, 90%RH, thickness: 1.09 mil		
4.	2.5° wide angle		

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#### Recommended distributors for this material

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