

NatureFlex™ NP 90

Regenerated Cellulose

Innovia Films Ltd.

Message:

NatureFlex™ NP 90 is a Regenerated Cellulose product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of NatureFlex™ NP 90 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 ¹			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 : 23 µm	> 2000	MPa	
1% Secant, TD : 23 µm	> 1000	MPa	
Tensile Strength			ASTM D882

MD : Yield,23 μm	124	MPa	
TD : Yield,23 μm	68.9	MPa	
Tensile Elongation			ASTM D882
MD : Break, 23 μm	22	%	
TD : Break, 23 μm	70	%	
Oxygen Transmission Rate (Wet) ² (24°C, 23 μm, 0.0% RH)	2.95	cm ³ /m ² /24 hr	ASTM F1927
Water Vapor Transmission ³	1500	g/m ² /24 hr	ASTM E96
Film Gauge	22.6	μm	Internal Method
Yield (22.6 μm)	30.8	m ² /kg	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 22.6 μm)	100		ASTM D2457
Haze ⁴ (22.6 μm)	3.0	%	ASTM D1003
NOTE			
1.	Thickness: 0.89 mil		
2.	RH: 0 to 5%		
3.	100°F, 90%RH, thickness: 0.89 mil		
4.	2.5° wide angle		

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Recommended distributors for this material

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



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