

# NatureFlex™ 90 NE

Regenerated Cellulose

Innovia Films Ltd.

## Message:

NatureFlex™ 90 NE is a Regenerated Cellulose product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Film.

Characteristics include:

Eco-Friendly/Green

Chemical Resistant

Clarity

Good Sealability

High Gloss

General Information			
Features	Antistatic		
	Biodegradable		
	Compostable		
	Deadfold and Twist Retention		
	Flavor & Aroma Barrier		
	Gas Barrier		
	Good Heat Seal		
	Grease Resistant		
	High Clarity		
	High Gloss		
	Oil Resistant		
	Renewable Resource Content		
Uses	Film		
Agency Ratings	ASTM D 6400		
	EN 13432		
Appearance	Clear/Transparent		
Forms	Film		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction <sup>1</sup> (vs. Itself - Dynamic)	0.30		ASTM D1894
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
1% Secant, MD : 23 µm	> 3000	MPa	
1% Secant, TD : 23 µm	> 1520	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 $\mu\text{m}$	22	%	
TD : Break, 23 $\mu\text{m}$	70	%	
Seal Strength <sup>2</sup>	0.15	N/mm	Internal Method
Seal Initiation Temperature (23 $\mu\text{m}$ )	79.4 to 199	$^{\circ}\text{C}$	Internal Method
Oxygen Transmission Rate (Wet) (24 $^{\circ}\text{C}$ , 23 $\mu\text{m}$ , 0.0% RH)	3.10	$\text{cm}^3/\text{m}^2/24 \text{ hr}$	ASTM F1927
Water Vapor Transmission <sup>3</sup>	31	$\text{g}/\text{m}^2/24 \text{ hr}$	ASTM E96
Film Gauge	23.4	$\mu\text{m}$	Internal Method
Yield (23.4 $\mu\text{m}$ )	29.9	$\text{m}^2/\text{kg}$	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45 $^{\circ}$ , 23.4 $\mu\text{m}$ )	90		ASTM D2457
Haze <sup>4</sup> (23.4 $\mu\text{m}$ )	6.0	%	ASTM D1003
NOTE			
1.	Thickness: 0.92 mil		
2.	Thickness: 0.92 mil		
3.	100 $^{\circ}\text{F}$ , 90%RH, thickness: 0.92 mil		
4.	2.5 $^{\circ}$ wide angle		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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

