

# NatureFlex™ NE30 (23μ)

Regenerated Cellulose

Innovia Films Ltd.

## Message:

NatureFlex™ NE30 (23μ) 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                                                    | Biodegradable                |      |             |
|                                                             | Compostable                  |      |             |
|                                                             | 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                         |      |             |
| 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                                       | > 1500                       | MPa  |             |
| Tensile Strength                                            |                              |      | ASTM D882   |
| MD : Yield,23 μm                                            | 125                          | MPa  |             |
| TD : Yield,23 μm                                            | 70.0                         | MPa  |             |

|                                                       |                               |                                        |                 |
|-------------------------------------------------------|-------------------------------|----------------------------------------|-----------------|
| Tensile Elongation                                    |                               |                                        | ASTM D882       |
| MD : Break, 23 μm                                     | 22                            | %                                      |                 |
| TD : Break, 23 μm                                     | 70                            | %                                      |                 |
| Seal Strength <sup>2</sup>                            | 0.16                          | N/mm                                   | Internal Method |
| Seal Initiation Temperature (23 μm)                   | 80.0 to 200                   | °C                                     | Internal Method |
| Oxygen Transmission Rate (Wet) (23°C, 23 μm, 0.0% RH) | 3.00                          | cm <sup>3</sup> /m <sup>2</sup> /24 hr | ASTM F1927      |
| Water Vapor Transmission                              |                               |                                        |                 |
| -- <sup>3</sup>                                       | 15                            | g/m <sup>2</sup> /24 hr                | DIN 53122       |
| -- <sup>4</sup>                                       | 15                            | g/m <sup>2</sup> /24 hr                | BS 3177         |
| -- <sup>5</sup>                                       | 30                            | g/m <sup>2</sup> /24 hr                | ASTM E96        |
| Film Gauge                                            | 22.8                          | μm                                     | Internal Method |
| Yield (22.8 μm)                                       | 30.4                          | m <sup>2</sup> /kg                     | Internal Method |
| Optical                                               | Nominal Value                 | Unit                                   | Test Method     |
| Gloss (45°, 22.8 μm)                                  | 90                            |                                        | ASTM D2457      |
| Haze <sup>6</sup> (22.8 μm)                           | 6.0                           | %                                      | ASTM D1003      |
| NOTE                                                  |                               |                                        |                 |
| 1.                                                    | Thickness: 22.8μ              |                                        |                 |
| 2.                                                    | Thickness: 22.8μ              |                                        |                 |
| 3.                                                    | 23°C, 85%RH, thickness: 22.8μ |                                        |                 |
| 4.                                                    | 25°C, 75%RH, thickness: 22.8μ |                                        |                 |
| 5.                                                    | 38°C, 90%RH, thickness: 22.8μ |                                        |                 |
| 6.                                                    | 2.5° wide angle               |                                        |                 |

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