

NatureFlex™ 165 NE

Regenerated Cellulose

Innovia Films Ltd.

Message:

NatureFlex™ 165 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 ¹ (vs. Itself - Dynamic) | 0.30 | | ASTM D1894 |
| Films | Nominal Value | Unit | Test Method |
| Secant Modulus | | | ASTM D882 |
| 1% Secant, MD : 42 µm | > 3000 | MPa | |
| 1% Secant, TD : 42 µm | > 1520 | MPa | |
| Tensile Strength | | | ASTM D882 |
| MD : Yield,42 µm | 124 | MPa | |
| TD : Yield,42 µm | 68.9 | MPa | |

| Tensile Elongation | | | ASTM D882 |
|---|---|--|-----------------|
| MD : Break, 42 μm | 22 | % | |
| TD : Break, 42 μm | 70 | % | |
| Seal Strength ² | 0.15 | N/mm | Internal Method |
| Seal Initiation Temperature (42 μm) | 79.4 to 199 | $^{\circ}\text{C}$ | Internal Method |
| Oxygen Transmission Rate (Wet) (24 $^{\circ}\text{C}$, 42 μm , 0.0% RH) | 3.10 | $\text{cm}^3/\text{m}^2/24 \text{ hr}$ | ASTM F1927 |
| Water Vapor Transmission ³ | 31 | $\text{g}/\text{m}^2/24 \text{ hr}$ | ASTM E96 |
| Film Gauge | 41.7 | μm | Internal Method |
| Yield (41.7 μm) | 16.6 | m^2/kg | Internal Method |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45 $^{\circ}$, 41.7 μm) | 90 | | ASTM D2457 |
| Haze ⁴ (41.7 μm) | 6.0 | % | ASTM D1003 |
| NOTE | | | |
| 1. | Thickness: 1.64 mil | | |
| 2. | Thickness: 1.64 mil | | |
| 3. | 100 $^{\circ}\text{F}$, 90%RH, thickness: 1.64 mil | | |
| 4. | 2.5 $^{\circ}$ wide angle | | |

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