# LOFEX® A4111

Polyethylene Terephthalate

Lotte Chemical Corporation

## Message:

LOFEX ® A4111 Polyester film is optically clear and both sides corona treated with excellent properties by tensile strength , proper elongation and the thermal contraction rate. It can use by release film because it has excellent run, easy treatment by suitable product. Also, it is a product that thickness control is possible according to customer needs.

| General Information | | | |
|---|---|---|---|
| Features | Good Strength<br>High Clarity | | |
| Uses | Film<br>Industrial Applications | | |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Film | | |
| **Physical** | **Nominal Value** | **Unit** | |
| Surface Tension | | | |
| 50.0 µm | 52 | mN/m | |
| 75.0 µm | 52 | mN/m | |
| 100.0 µm | 52 | mN/m | |
| 125.0 µm | 52 | mN/m | |
| F5 | | | ASTM D882 |
| MD : 50.0 µm | 113 | MPa | |
| MD : 75.0 µm | 113 | MPa | |
| MD : 100.0 µm | 113 | MPa | |
| MD : 125.0 µm | 113 | MPa | |
| TD : 50.0 µm | 113 | MPa | |
| TD : 75.0 µm | 113 | MPa | |
| TD : 100.0 µm | 113 | MPa | |
| TD : 125.0 µm | 113 | MPa | |
| Heat Shrinkage | | | Internal Method |
| MD, 30 min : 125.0 µm | 1.0 | % | |
| MD, 30 min : 150°C, 50.0 µm | 1.0 | % | |
| MD, 30 min : 150°C, 75.0 µm | 1.0 | % | |
| MD, 30 min : 150°C, 100.0 µm | 1.0 | % | |
| TD, 30 min : 150°C, 50.0 µm | 0.50 | % | |
| TD, 30 min : 150°C, 75.0 µm | 0.50 | % | |
| TD, 30 min : 150°C, 100.0 µm | 0.50 | % | |
| TD, 30 min : 150°C, 125.0 µm | 0.50 | % | |

| | | | |
|---|---|---|---|
| Surface Treatment | Both sides (Corona) | | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Coefficient of Friction (vs. Itself - Dynamic) | 0.30 | | ASTM D1894 |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength | | | ASTM D882 |
| MD : Yield,50 µm | 196 | MPa | |
| MD : Yield,75 µm | 196 | MPa | |
| MD : Yield,100 µm | 196 | MPa | |
| MD : Yield,130 µm | 186 | MPa | |
| TD : Yield,50 µm | 235 | MPa | |
| TD : Yield,75 µm | 216 | MPa | |
| TD : Yield,100 µm | 216 | MPa | |
| TD : Yield,130 µm | 206 | MPa | |
| Tensile Elongation | | | ASTM D882 |
| MD : Break, 50 µm | 170 | % | |
| MD : Break, 75 µm | 170 | % | |
| MD : Break, 100 µm | 170 | % | |
| MD : Break, 130 µm | 170 | % | |
| TD : Break, 50 µm | 120 | % | |
| TD : Break, 75 µm | 120 | % | |
| TD : Break, 100 µm | 120 | % | |
| TD : Break, 130 µm | 120 | % | |
| **Optical** | **Nominal Value** | **Unit** | **Test Method** |
| Gardner Gloss | | | ASTM D523 |
| 60°, 50.0 µm | 160 | | |
| 60°, 75.0 µm | 160 | | |
| 60°, 100 µm | 160 | | |
| 60°, 125 µm | 160 | | |
| Transmittance | | | ASTM D1003 |
| 50.0 µm | 88.0 | % | |
| 75.0 µm | 88.0 | % | |
| 100 µm | 88.0 | % | |
| 125 µm | 88.0 | % | |
| Haze | | | ASTM D1003 |
| 50.0 µm | 2.0 | % | |
| 75.0 µm | 2.5 | % | |
| 100 µm | 3.4 | % | |
| 125 µm | 3.5 | % | |

Recommended distributors for this material

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