# INEOS LLDPE LL6910KJ

Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

## Message:

LLDPE film products
Applications
LL6910KJ is particularly suitable for use in lean and rich blend blown film applications, such as overwrap, counter bags, shrink film (lean blends, 10 to 30% LLDPE) and stand-up pouch applications.
Benefits and Features
LL6910KJ is a linear low density polyethylene copolymer containing hexene-1 as the co-monomer. It offers the following properties:
Very high stiffness and downgauging potential
Good optical properties
High temperature resistance
High water vapour barrier properties
High creep resistance
Excellent sealability and hot-tack strength
LL6910KJ gives high slip film with easy opening properties when used pure in the thickness range 30 - 70 µm. Addition of other polymers, masterbatches and pigments, or use of other thicknesses may alter film slip and antiblock performance.
If corona treatment is necessary, the level should normally be in the range 38-48 mN/m.
We recommend that you consult your INEOS technical representative for further advice on the use of LL6910KJ.

| General Information | |
|---|---|
| Additive | Anti-caking agent (400 ppm)<br>Antioxidation<br>Sliding agent (800 ppm) |
| Features | Moisture proof<br>Rigidity, high<br>Optical<br>hexene comonomer<br>Good creep resistance<br>Good heat sealability<br>Heat resistance, high |
| Uses | Films<br>Laminate<br>Bags<br>Mixing<br>Shrinkable film |
| RoHS Compliance | Contact manufacturer |
| Forms | Particle |
| Processing Method | Blow film |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.937 | g/cm³ | ISO 1183/D |

| | | | |
|---|---|---|---|
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.0 | g/10 min | ISO 1133 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Coefficient of Friction | 0.23 | | ASTM D1894 |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| Film Thickness - Tested | 38 | µm | |
| Tensile Modulus - 1% Secant (38 µm, Blown Film) | 450 | MPa | ISO 1184 |
| Tensile Stress | | | ISO 527-3 |
| MD: Yield, 38 µm, blown film | 18.0 | MPa | ISO 527-3 |
| TD: Yield, 38 µm, blown film | 21.0 | MPa | ISO 527-3 |
| MD: 38 µm, blown film | 54.0 | MPa | ISO 527-3 |
| TD: 38 µm, blown film | 36.0 | MPa | ISO 527-3 |
| Tensile Elongation | | | ISO 1184 |
| MD: Broken, 38 µm, blown film | 780 | % | ISO 1184 |
| TD: Broken, 38 µm, blown film | 990 | % | ISO 1184 |
| Dart Drop Impact (38 µm, Blown Film) | 65 | g | ASTM D1709A |
| Elmendorf Tear Strength [1] | | | ASTM D1922 |
| MD : 38.0 µm | 13.7 | kN/m | ASTM D1922 |
| TD : 38.0 µm | 127.5 | kN/m | ASTM D1922 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Vicat Softening Temperature | 121 | °C | ISO 306/A50 |
| **Optical** | **Nominal Value** | **Unit** | **Test Method** |
| Gloss (45°, 38.0 µm, Blown Film) | 50 | | ASTM D2457 |
| Haze (38.0 µm, Blown Film) | 15 | % | ASTM D1003 |
| **Additional Information** | | | |
| Film properties taken from 38 µm film, 2:1 blow up ratio, 230°C melt temperature. | | | |
| **Extrusion** | **Nominal Value** | **Unit** | |
| Melt Temperature | 180 - 230 | °C | |
| **NOTE** | | | |
| 1. | Blown Film | | |



## 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


WECHAT