

INEOS LLDPE LL3910AA

Linear Low Density Polyethylene
INEOS Olefins & Polymers Europe

Message:

LLDPE film products

Applications:

LL3910AA 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 boil-in-the-bag applications.

Benefits and Features:

LL3910AA is a linear low density polyethylene copolymer containing hexene-1 as the comonomer. 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

For shrink film, higher shrink holding force and improved burn-through resistance

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 LL3910AA.

| General Information | | | |
|--|-----------------------|-------------------|-------------|
| Additive | Antioxidant | | |
| Features | Antioxidant | | |
| | Copolymer | | |
| | Good Creep Resistance | | |
| | Good Heat Seal | | |
| | Hexene Comonomer | | |
| | High Heat Resistance | | |
| | High Stiffness | | |
| | Opticals | | |
| Uses | Bags | | |
| | Film | | |
| RoHS Compliance | Contact Manufacturer | | |
| Processing Method | Blown Film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density ¹ | 0.936 | g/cm ³ | ISO 1183/D |
| Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg) | 1.0 | g/10 min | ISO 1133 |
| 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 | |
|--------------------------------------|-------------------------------------|------|-------------|
| TD : Yield, 38 µm, Blown Film | 21.0 | MPa | |
| MD : Break, 38 µm, Blown Film | 54.0 | MPa | |
| TD : Break, 38 µm, Blown Film | 36.0 | MPa | |
| Tensile Elongation | | | ISO 1184 |
| MD : Break, 38 µm, Blown Film | 780 | % | |
| TD : Break, 38 µm, Blown Film | 990 | % | |
| Dart Drop Impact (38 µm, Blown Film) | 65 | g | ASTM D1709A |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD : 25 µm, Blown Film | 35 | g | |
| TD : 25 µm, Blown Film | 330 | g | |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 121 | °C | ISO 306/A |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, 38.0 µm, Blown Film) | 50 | | ASTM D2457 |
| Haze (38.0 µm, Blown Film) | 13 | % | ASTM D1003 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 180 to 230 | °C | |
| NOTE | | | |
| 1. | Conditioned according to ISO 1872/1 | | |
| 2. | Condition 4 | | |

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