



# LL6910AA

## Product Technical Information

LLDPE film products

## Benefits & Features

LL6910AA 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

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 O&P Europe technical representative for further advice on the use of LL6910AA.

## Applications

LL6910AA 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. This grade is also recommended for artificial grass applications.

Properties	Conditions	Test Methods	Values	Units
<b>Rheological</b>				
Melt Flow Rate		ISO 1133-1	1	g/10min
<b>Physical</b>				
Density		ISO 1183-2	936	kg/m <sup>3</sup>
<b>Mechanical</b>				
1% Secant modulus		ISO 527-3	450	MPa
Dart drop impact	Method A	ASTM D1709	65	g
Elmendorf tear strength	MD/TD	ASTM D1922	35/325	gf/25 μm
Elongation at break	MD/TD	ISO 527-3	780/990	%
Tensile stress at break	MD/TD	ISO 527	54/36	MPa
Tensile stress at yield	MD/TD	ISO 527	18/21	MPa
<b>Optical</b>				
Gloss	45°	ASTM D2457	50	GU
Haze		ASTM D1003	13	%

**Data should not be used for specification work**

(\*) - 38μm film. 2:1 blowup ratio, 225°C melt temperature – MD = Machine direction TD = Transverse direction



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## **Extrusion conditions**

LL6910LA can be processed on most standard extrusion equipment. Optimisation may be required depending on the exact end use requirements. Recommended melt temperature range is 180 – 230°C.

## **Storage**

The product should be stored in a dry and dust free environment at temperature below 50°C.  
Exposure to direct sunlight should be avoided as this may lead to product deterioration.  
It is advised to process the product within maximum one year after delivery.