Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

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
Rheological				
Melt Flow Rate		ISO 1133-1	1	g/10min
Physical				
Density		ISO 1183-2	936	kg/m³
Mechanical				
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
Optical				
Gloss	45°	ASTM D2457	50	GU
Haze		ASTM D1003	13	%

Data should not be used for specification work

(*) - 38µm film. 2:1 blowup ratio, 225ºCmelt 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.

Regulatory Information

The product and uses described herein may be subject to specific requirements or limitations for use in certain applications like food contact, drinking water or medical devices. Further information may be obtained from the website www.ineos.com where a specific Regulatory Certificate is available for each grade under the heading "SDS & Regulatory Certificate".

Unless specifically indicated, the product mentioned herein is not suitable for applications in the medical or pharmaceutical sectors.

Health and Safety Information

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Safety Data Sheet (SDS) that may be obtained from the website www.ineos.com. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

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