

# LL6808AA

## Product Technical Information

LL6808AA is a linear low density polyethylene copolymer containing hexene-1 as co-monomer formulated with antioxidants.

## Benefits & Features

LL6808AA offers the following properties:

- Excellent environmental stress crack resistance
- Low gel level
- High temperature resistance
- High creep resistance
- Good sealability.

## Applications

LL6808AA is a low-gel polymer designed for:

- Geomembranes and Geoliners.
- Blown film requiring improved stiffness.
- Artificial grass.

We recommend that you consult your INEOS technical representative for further advice on the use of LL6808AA.

Properties	Conditions	Test Methods	Values	Units
<b>Rheological</b>				
Melt Flow Rate	190°C/2.16 kg	ISO 1133-1	0.85	g/10min
Melt Flow Rate	190°C/5 kg	ISO 1133-1	2.5	g/10min
<b>Physical</b>				
Density ISO 1872-1	23°C	ISO 1183-1	932	kg/m <sup>3</sup>
<b>Mechanical*</b>				
Dart drop impact Method A		ASTM D 1709	110	g
Tensile strength at break MD/TD**		ISO 527-3	15/14	MPa
Tensile strength at yield MD/TD**		ISO 527-3	59/44	MPa
Tensile strain at break MD/TD**		ISO 527-3	720/810	%
1% Secant modulus MD/TD**		ISO 527-3	290/305	MPa
Elmendorf tear strenght MD/TD**		ASTM D 1922	150/560	g/25 µm
<b>Optical</b>				
Haze		ASTM D 1003	5	%
Gloss	45°	ASTM D 2457	63	-
<b>Thermal</b>				
Peak DSC melting temperature	2nd heating	ASTM D 3418	127	°C
Vicat Softening Temperature	10N	ISO306/A50	110	°C

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

\* 25 µm film 2.5:1 blow-up ratio, 200°C melt temperature - \*\* MD = machine direction, TD = transverse direction

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## Processing guidelines

LL6808AA can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.

The recommended melt temperature range is 190 - 230°C for standard blown film applications,

For more details, please refer to the metallocene processing guide.

## 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.

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