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

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
Rheological				
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
Physical				
Density ISO 17855-1	23°C	ISO 1183-1	932	kg/m³
Mechanical*				
Dart drop impact Method A		ASTM D 1709	110	g
Tensile strength at break MD/TD**		ISO 527-3	59/44	MPa
Tensile strength at yield MD/TD**		ISO 527-3	15/14	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
Optical				
Haze		ASTM D 1003	5	%
Gloss	45°	ASTM D 2457	63	-
Thermal				
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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LL6808AA

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.

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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