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

LL6120AA

Product Technical Information

LLDPE for film products

Applications

- LL6120AA is particularly suitable for high performance cast stretch film applications and can be used, for example, as a core layer in co-extruded structures.
- This grade is also recommended for artificial grass applications

Characteristics

LL6120AA is a linear low density polyethylene copolymer containing hexene (C6) as the co-monomer. It offers the following properties:

- Good output rates
- Very good puncture resistance
- Rigidity

We recommend that you consult your INEOS O&P Europe technical representative for further advice on the use of LL6120AA.

Properties		Test Methods	Values	Units
Physical				
Melt Flow Rate		ISO 1133 Condition 4	2.3	g/10min
Density (conditioning ISO 1872/1)		ISO 1183 Method D	920	kg/m³
Other additive: antioxidants				
Film*				
Dart drop impact	Method A	ASTM D1709	180	g
Puncture resistance		INEOS method	35	Ncm/µm
Tensile stress @ break	MD/TD	ISO 0527	33/25	MPa
Elongation @ break	MD/TD	ISO 1184	600/750	%
1% Secant Modulus	MD/TD	ISO 1184	100/120	MPa
Elmendorf tear strength	MD/TD	ASTM D1922	250/580	g/25 µm
Haze		ASTM D1003	1	%
Gloss (45°)		ASTM D2457	93	‰

- Data should not be used for specification work

* 20 µm film, 150 m/min line speed, 260°C melt temperature - MD = machine direction - TD = transverse direction

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Extrusion conditions

LL6120AA can be processed on most standard extrusion equipment. Optimisation may be required depending on the exact end use requirements.

For best cast film performance, LL6120AA should be processed on machinery purpose designed for LLDPE. Particular attention should be paid to controlling melt temperature, and to ensuring that casting conditions are optimal. Melt temperatures in the range 240°C - 280°C are normally used.

Storage

LL6120AA should be stored in a dry and dust free environment at temperatures below 50°C. Exposure to direct sunlight should be avoided, as this may lead to product deterioration.

Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, send an email to psnohreg@ineos.com. Unless specifically indicated, the products mentioned herein are not suitable for applications in the medical or pharmaceutical sector.

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 Material Safety Data Sheet (MSDS) that may be obtained from the website www.ineospolyolefins.com. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

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