LL6130AA

Product Technical Information

LLDPE for film products

Applications

- LL6130AA is particularly suitable for high performance cast stretch film applications, in particular as a core layer in co-extruded structures.

Characteristics

LL6130AA s a linear low density polyethylene copolymer containing hexene (C6) as the co-monomer. It offers the following properties:

- High output rates
- Excellent overall film appearance and surface finish
- Very good puncture resistance

We recommend that you consult your INEOS O&P Europe technical representative for further advice on the use of LL6130AA.

Properties		Test Methods	Value s	Units
Physical				
Melt Flow Rate		ISO 1133 Condition 4	3	g/10min
Density (conditioning ISO 1872/1)		ISO 1183 Method D	920	kg/m³
Additives: antioxidants				
Film*				
Dart drop impact	Method A	ASTM D1709	160	g
Puncture resistance		INEOS method	30	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	90/110	MPa
Elmendorf tear strength	MD/TD	ASTM D1922	240/560	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

LL6130AA can be processed on most standard extrusion equipment. Optimisation may be required depending on the exact end use requirements.

For best cast film performance, LL6130AA 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

LL6130AA 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