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

LL6208AF

Product Technical Information

LLDPE film products

Benefits & Features

LL6208AF is a linear low density polyethylene copolymer containing hexene-1 as the co-monomer. It offers the following properties:

- Excellent impact strength and puncture resistance
- High tear strength
- Good optical properties
- Good bubble stability
- Excellent sealability and hot-tack strength

Applications

LL6208AF has been developed for use in rich blends in heavy duty sacks, liners and other thin film applications requiring excellent mechanical performance. This grade is also recommended for artificial grass applications

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 LL6208AF

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt flow rate	230°C/2.16kg	ISO 1133-1	0.9	g/10 min
Physical				
Density		ISO 1183-2	920	kg/m³
Mechanical[1]				
1% Secant modulus		ISO 527-3	180/240	MPa
Dart drop impact	Method A	ASTM D1709	250	g
Elmendorf tear strength	MD/TD	ASTM D1922	245/545	gf/25 mm
Elongation at break	MD/TD	ISO 527-3	750/900	%
Tensile stress at break	MD/TD	ISO 527	60/44	MPa
Tensile stress at yield	MD/TD	ISO 527	12/12	MPa
Vicat softening temperature	Method A (10N)	ISO 306	101	°C
Optical				
Gloss	45°	ASTM D2457	61	GU
Haze		ASTM D1003	10	%
Additives				
Antioxidants, CaSt				

Data should not be used for specification work

[1] 38 µm film, 2:1 blow-up ratio, 225°C melt temperature - MD = machine direction TD = transverse direction

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Extrusion conditions

LL6208AF in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.
LL6208AF rich film formulations are often processed on modified LDPE machinery, but for the best performance the use of purposely designed LLDPE machinery is recommended. Particular attention should be paid to maintaining a low melt temperature, and an efficient bubble cooling system should be employed. The 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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