

INEOS LLDPE LL6808AA

Linear Low Density Polyethylene
INEOS Olefins & Polymers Europe

Message:

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.

General Information			
Additive	Antioxidation		
Features	Low density		
	Low speed solidification crystal point		
	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	hexene comonomer		
	Antioxidation		
	Good creep resistance		
	Heat resistance, high		
Uses	Blown Film		
	Geo Membranes		
	Films		
	Lining		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.932	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.85	g/10 min	ISO 1133
190°C/5.0 kg	2.5	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	

Tensile Modulus			ISO 527-3
1% secant, MD: 25 µm, blown film	290	MPa	ISO 527-3
1% secant, TD: 25 µm, blown film	305	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 25 µm, blown film	59.0	MPa	ISO 527-3
TD: Yield, 25 µm, blown film	44.0	MPa	ISO 527-3
MD: Broken, 25 µm, blown film	15.0	MPa	ISO 527-3
TD: Broken, 25 µm, blown film	14.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 25 µm, blown film	720	%	ISO 527-3
TD: Broken, 25 µm, blown film	810	%	ISO 527-3
Dart Drop Impact (25 µm, Blown Film)	110	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	150	g	ASTM D1922
TD: 25 µm, blown film	560	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	110	°C	ISO 306/A50
Peak Melting Temperature ¹	127	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	63		ASTM D2457
Haze (25.0 µm, Blown Film)	5.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 230	°C	
NOTE			

1. 2nd heating

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