INEOS LLDPE LL8109AA

Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

LLDPE for Blown film

LL8109AA has been developed for use in rich blends for mulch film, refuse sacks, liners and other thin film applications where excellent mechanical performance is required.

Characteristics

LL8109AA is a linear low density polyethylene copolymer containing hexene-1 as the comonomer. It offers the following properties:

Excellent impact strength and puncture resistance

High tear strength

Good optical properties

Good bubble stability

Excellent sealing characteristics

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 LL8109AA.

General Information			
Additive	Antioxidation		
Features	Copolymer		
	Optical		
	hexene comonomer		
	Perforation resistance		
	Antioxidation		
	Impact resistance, good		
	Good heat sealability		
	Good tear strength		
Uses	Films		
	Lining		
	Bags		
	Mixing		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	0.90	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Tensile Modulus			ISO 1184
1% secant, MD: 25 µm, blown film	175	MPa	ISO 1184

1% secant, TD: 25 μm, blown film	195	MPa	ISO 1184	
Tensile Stress			ISO 527-3	
MD: Yield, 25 µm, blown film	11.0	MPa	ISO 527-3	
TD: Yield, 25 μm, blown film	12.0	MPa	ISO 527-3	
MD: 25 µm, blown film	60.0	MPa	ISO 527-3	
TD: 25 µm, blown film	45.0	MPa	ISO 527-3	
Tensile Elongation			ISO 1184	
MD: Broken, 25 µm, blown film	590	%	ISO 1184	
TD: Broken, 25 μm, blown film	750	%	ISO 1184	
Dart Drop Impact (25 µm, Blown Film)	300	g	ASTM D1709A	
Elmendorf Tear Strength ¹			ASTM D1922	
MD : 25.0 μm	137.3	kN/m	ASTM D1922	
TD : 25.0 μm	251.1	kN/m	ASTM D1922	
Thermal	Nominal Value	Unit	Test Method	
Vicat Softening Temperature	100	°C	ISO 306/A50	
Optical	Nominal Value	Unit	Test Method	
Gloss (45°, 25.0 µm, Blown Film)	41		ASTM D2457	
Haze (25.0 µm, Blown Film)	15	%	ASTM D1003	
Additional Information				
Film properties taken from 25 µm film, 2.5:1 blow up ratio, 200°C melt temperature.				
Extrusion	Nominal Value	Unit		
Melt Temperature	190 - 230	°C		
NOTE				
1.	Blown Film			

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