

Eltex® PF6212AE

Metallocene Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

Eltex® PF6212AE is a metallocene LLDPE grade produced in Europe

Benefits & Features

Eltex® PF6212AE is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:

- Extremely high impact strength
- Excellent optical properties
- Very good bubble stability and extrudability, even at low gauge and narrow die gap
- Low temperature sealing characteristics
- Eltex® PF6212AE is formulated with antioxidants and a polymer processing aid.

Applications

Eltex® PF6212AE has been developed for use in food packaging and other thin film applications where excellent mechanical and optical performance is required. Eltex® PF6212AE offers easy extrudability.

General Information			
Additive	Processing aid		
	Antioxidation		
Features	Ultra-high impact resistance		
	Low density		
	Low temperature heat sealability		
	Copolymer		
	Optical		
	hexene comonomer		
	Antioxidation		
	Workability, good		
	Compliance of Food Exposure		
Uses	Films		
	Food packaging		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Film extrusion		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.919	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	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	180	MPa	ISO 1184
1% secant, TD: 25 μm, blown film	200	MPa	ISO 1184
Tensile Stress			ISO 1184
MD: Yield, 25 μm, blown film	9.00	MPa	ISO 1184
TD: Yield, 25 μm, blown film	10.0	MPa	ISO 1184
MD: Broken, 25 μm, blown film	65.0	MPa	ISO 1184
TD: Broken, 25 μm, blown film	60.0	MPa	ISO 1184
Tensile Elongation			ISO 1184
MD: Broken, 25 μm, blown film	550	%	ISO 1184
TD: Broken, 25 μm, blown film	670	%	ISO 1184
Dart Drop Impact (25 μm, Blown Film)	> 1000	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 25 μm, blown film	200	g	ASTM D1922
TD: 25 μm, blown film	440	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature ¹	105 - 118	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm, Blown Film)	65		ASTM D2457
Haze (25.0 μm, Blown Film)	7.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 230	°C	
NOTE			
1.	2nd heating		

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