

# Eltex® PF6012AA

Metallocene Linear Low Density Polyethylene  
INEOS Olefins & Polymers Europe

Message:

Eltex® PF6012AA is a metallocene LLDPE resin produced in Europe.

Benefits and Features

Eltex® PF6012AA is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:

- Very low sealing initiation temperature
- Excellent Hot Tack strength, particularly advantageous for HFFS packaging lines
- Unrivalled impact strength and puncture resistance
- Very good bubble stability and extrudability similar to the best LLDPE blown film grades
- Properties ideally balanced in machine and transverse directions
- Excellent blending compatibility with other LLDPE and LDPE grades

Applications

Eltex® PF6012AA has been developed for use in highly technical film like food packaging, lamination and co-extrusion applications where superior mechanical and sealing performance is required. In addition Eltex® PF6012AA offers easy extrudability. Eltex® PF6012AA is particularly suitable for multilayer film applications where it can be used neat or as a blending partner with LLDPE or LDPE in sealing layers.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Hexene Comonomer		
	Low Temperature Heat Sealability		
	Puncture Resistant		
Uses	Ultra High Impact Resistance		
	Blending		
	Film		
	Food Packaging		
	Laminates		
Processing Method	Packaging		
	Sealing Devices		
	Blown Film		
	Coextrusion		
Physical	Extrusion		
	Laminating		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.912	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 527-3
1% Secant, MD : 25 μm, Blown Film	120	MPa	
1% Secant, TD : 25 μm, Blown Film	130	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 25 μm, Blown Film	8.00	MPa	
TD : Yield, 25 μm, Blown Film	8.00	MPa	
MD : Break, 25 μm, Blown Film	73.0	MPa	
TD : Break, 25 μm, Blown Film	69.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 μm, Blown Film	520	%	
TD : Break, 25 μm, Blown Film	620	%	
Dart Drop Impact (25 μm, Blown Film)	> 2000	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm, Blown Film	180	g	
TD : 25 μm, Blown Film	350	g	
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	97.0 to 114	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm, Blown Film)	83		ASTM D2457
Haze (25.0 μm, Blown Film)	3.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	

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