Eltex® PF6212KE

Metallocene Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

Eltex® PF6212KE is a metallocene LLDPE grade produced in Europe
Benefits & Features
Eltex® PF6212KE 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® PF6212KE is formulated with antioxidants, slip and antiblock additives and a processing aid. Addition of other polymers, masterbatch and pigments may alter film slip and antiblock performance.
Applications
Eltex® PF6212KE has been developed for use in food packaging and other thin film applications where excellent mechanical and optical performance is required. Eltex® PF6212KE offers easy extrudability.

General Information	
Additive	Processing aid
	Erucamide Lubricating Additive (1000 ppm)
	Anti-caking agent (300 ppm) 2
	Antioxidation
Features	Ultra-high impact resistance
	Low density
	Low temperature heat sealability
	Copolymer
	smoothness
	Optical
	hexene comonomer
	Anti-caking property
	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)	0.920	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (Blown Film)	< 0.25		ASTM D1894
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)	62		ASTM D2457
Haze (25.0 µm, Blown Film)	8.0	%	ASTM D1003
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	190 - 230	°C	
NOTE			
1.	2nd heating		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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