Eltex® PF6612KE

Metallocene Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

Eltex® PF6612KE is a metallocene LLDPE grade produced in Europe.
Benefits & Features
Eltex® PF6612KE is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:
High impact strength and rigidity
Excellent optical properties
Very good bubble stability and extrudability, evene at low gauge and narrow die gap
Low temperature sealing characteristics
Eltex® PF6612KE is formulated with antioxidants, slip and antiblocking agents, and a processing aid. Addition of other polymers, masterbatch and pigments may alter film slip and antiblock performance.
Applications
Eltex® PF6612KE has been developed for use in collation shrinkwrap, food packaging, refuse sacks and other thin film applications where an excellent balance between film strength and rigidity is required together with good optical properties. In addition, Eltex® PF6612KE offers easy extrudability.

General Information	
Additive	Antiblock (300 ppm) 2 Antioxidant Erucamide Slip (1000 ppm)
Features	Antiblocking Antioxidant Good Processability High Impact Resistance High Rigidity Low Temperature Heat Sealability Opticals Slip
Uses	Film Food Packaging Packaging Shrink Wrap
Processing Method	Blown Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.927	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)	< 0.30		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	25	µm	
Tensile Modulus			ISO 527-3
1% Secant, MD : 25 µm, Blown Film	230	MPa	
1% Secant, TD : 25 µm, Blown Film	270	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 25 µm, Blown Film	13.0	MPa	
TD : Yield, 25 µm, Blown Film	13.0	MPa	
MD : Break, 25 µm, Blown Film	55.0	MPa	
TD : Break, 25 µm, Blown Film	50.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm, Blown Film	570	%	
TD : Break, 25 µm, Blown Film	690	%	
Dart Drop Impact (25 µm, Blown Film)	200	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	160	g	
TD : 25 µm, Blown Film	560	g	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Peak Melting Temperature [1]	120	°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 to 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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