

# Eltex® EXP9415

Metallocene Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

Eltex® EXP9415 is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:

- High impact strength & rigidity
- Excellent optical properties
- Very good bubble stability and extrudability.
- Low temperature sealing characteristics

Eltex® EXP9415 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® EXP9415 has been developed for use in collation shrinkwrap, food packaging and other thin film applications where excellent balance between film strength and rigidity is required together with good optical properties. In addition, Eltex® EXP9415 offers easy extrudability

We recommend that you consult your INEOS technical representative for further advice on the use of Eltex® EXP9415

General Information			
Additive	Antiblock (300 ppm) [Silica]		
	Antioxidant		
	Erucamide Slip (1000 ppm)		
	Processing Aid		
Features	Antiblocking		
	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Hexene Comonomer		
	High Impact Resistance		
	High Rigidity		
	Low Temperature Heat Sealability		
	Opticals		
	Slip		
Uses	Film		
	Food Packaging		
RoHS Compliance	Contact Manufacturer		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.927	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)	1.3	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	< 0.30		ASTM D1894

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Tensile Modulus			ISO 1184
1% Secant, MD : 25 μm	230	MPa	
1% Secant, TD : 25 μm	270	MPa	
Tensile Stress			ISO 1184
MD : Yield, 25 μm	13.0	MPa	
TD : Yield, 25 μm	13.0	MPa	
MD : Break, 25 μm	55.0	MPa	
TD : Break, 25 μm	50.0	MPa	
Tensile Elongation			ISO 1184
MD : Break, 25 μm	570	%	
TD : Break, 25 μm	690	%	
Dart Drop Impact (25 μm)	200	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm	160	g	
TD : 25 μm	560	g	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm)	65		ASTM D2457
Haze (25.0 μm)	7.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	Conditioning ISO 1872/1		

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