INEOS LDPE M21E730

Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

LDPE ionomer for film products
Benefits & Features
M21E730 is an ionomer, produced by the neutralization of an ethylene methacrylic acid (MAA) copolymer. It offers the following properties:
Very high impact strength
Exceptional drawdown
Very low resistance to tear propagation in both machine and transverse directions
Good optical properties
Applications
M21E730 has been developed for easy tear film applications such as collation shrink film, envelopes, overwrap and bags. It can be blended or co-extruded with other types of polyethylene to tailor performance.
We recommend that you consult your INEOS technical representative for further advice on the use of M21E730.

General Information	
Features	Optical Impact resistance, high Good stripping
Uses	Films Bags Mixing Shrinkable film
RoHS Compliance	Contact manufacturer
Forms	Particle
Processing Method	Blow film Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.933	g/cm³	ISO 1872, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ISO 1133
Methacrylic Acid Content	1.7	%	Internal method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (Blown Film)	0.50		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 1184
1% secant, MD: 50 µm, blown film	165	MPa	ISO 1184
1% secant, TD: 50 µm, blown film	175	MPa	ISO 1184
Tensile Stress			ISO 1184

MD: Yield, 50 µm, blown film	11.0	MPa	ISO 1184
TD: Yield, 50 µm, blown film	10.0	MPa	ISO 1184
MD: 50 µm, blown film	28.0	MPa	ISO 1184
TD: 50 µm, blown film	29.0	MPa	ISO 1184
Tensile Elongation			ISO 1184
MD: Broken, 50 µm, blown film	200	%	ISO 1184
TD: Broken, 50 µm, blown film	400	%	ISO 1184
Dart Drop Impact (50 µm, Blown Film)	750	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	48	g	ASTM D1922
TD: 50 µm, blown film	54	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	60		ASTM D2457
Haze (50.0 µm, Blown Film)	9.0	%	ASTM D1003
Additional Information			
Values determined on a 50 µm film, 2.5:1 blow-up ratio, 180°C melt temperature			
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 200	°C	

Recommended distributors for this material

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