

INEOS LDPE M21E760

Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

M21E760 has been developed for easy tear films in applications such as collation shrink film, envelopes, overwrap and bags. It can be blended or coextruded with other types of polyethylene to tailor performance.

M21E760 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

M21E760 heat seals are normally strong, although may be peelable. If corona treatment is necessary, the level should normally be in the range 38-48 mN/m.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Good Drawdown		
	Good Heat Seal		
	Opticals		
	Ultra High Impact Resistance		
Uses	Bags		
	Blending		
	Film		
	Shrink Wrap		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Blown Film		
	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.933	g/cm ³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/0.325 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	
1% Secant, TD : 50 µm, Blown Film	175	MPa	
Tensile Stress			ISO 1184
MD : Yield, 50 µm, Blown Film	11.0	MPa	
TD : Yield, 50 µm, Blown Film	10.0	MPa	
MD : 50 µm, Blown Film	28.0	MPa	
TD : 50 µm, Blown Film	29.0	MPa	
Tensile Elongation			ISO 1184
MD : Break, 50 µm, Blown Film	200	%	
TD : Break, 50 µm, Blown Film	400	%	
Dart Drop Impact (50 µm, Blown Film)	750	g	ASTM D1709A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°C	ISO 306/A50
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
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 200	°C	

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