

# INEOS LDPE 21H460

Low Density Polyethylene

INEOS Olefins & Polymers Europe

## Message:

21H460 is suitable for a variety of general-purpose packaging films, liners, carrier bags, fine shrink film.

21H460 is an autoclave LDPE homopolymer. It offers the following properties:

Good strength and dart drop resistance

High clarity

Good drawdown

Low tendency to block

If corona treatment is necessary, the level should normally be in the range 38-48 mN/m.

General Information			
Additive	Antioxidation		
Features	Antioxidation		
	Good stripping		
	Good strength		
	Definition, high		
Uses	Packaging		
	Films		
	Laminate		
	Lining		
	Bags		
	Shrinkable film		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm <sup>3</sup>	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	g/10 min	ISO 1133
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	140	MPa	ISO 1184
1% secant, TD: 50 µm, blown film	150	MPa	ISO 1184
Tensile Stress			ISO 1184
MD: Yield, 50 µm, blown film	10.0	MPa	ISO 1184

TD: Yield, 50 µm, blown film	10.0	MPa	ISO 1184
MD: 50 µm, blown film	22.0	MPa	ISO 1184
TD: 50 µm, blown film	21.0	MPa	ISO 1184
Tensile Elongation			ISO 1184
MD: Broken, 50 µm, blown film	400	%	ISO 1184
TD: Broken, 50 µm, blown film	600	%	ISO 1184
Dart Drop Impact (50 µm, Blown Film)	120	g	ASTM D1709A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°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)	6.0	%	ASTM D1003
Additional Information			
Film properties taken from 50 µm film, 2.5:1 blow up ratio, 180°C melt temperature.			
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 185	°C	

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### 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

