# 21H460

#### **Product Technical Information**

LDPE for Blown film

### **Applications**

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

#### **Characteristics**

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

Ц	Good strength a	ınd dart o	drop resista	nce
	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. We recommend that you consult your INEOS Polyolefins technical representative for further advice on the use of 21H460.

Properties		Test Methods	Values	Units			
Physical							
Melt Flow Rate		ISO 1133 Condition 4	1.5	g/10min			
Conventional density		ISO 1183 Method D	922	$kg/m^3$			
(conditioning ISO 1872							
Vicat Softening temperature		ISO 306 Method A	95	°C			
Other additive: antioxidant							
Film*							
Dart drop impact	Method A	ASTM D1709	120	g			
Tensile stress @ yield	MD/TD	ISO 1184	10/10	MPa			
Tensile stress @ break	MD/TD	ISO 1184	22/21	MPa			
Elongation @ break	MD/TD	ISO 1184	400/600	0/0			
9	MD/TD	ISO 1184	140/150	MPa			
Coefficient of friction		ASTM D1894	> 0.5	-			
Haze		ASTM D1003	6	0/0			
Gloss (45°)		ASTM D2457	60	<b>%</b> 00			

<sup>-</sup> Data should not be used for specification work

TD = transverse direction



<sup>\* 50</sup> µm film, 2.5:1 blow-up ratio, 180°C melt temperature - MD = machine direction

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#### Extrusion conditions

21H460 can be processed on all commercial blown line film extruders over the melt temperature range 160 – 185°C. Film can be drawn down approximately 25 m under ideal extrusion conditions.

#### Storage

21H460 should be stored in a dry and dust free environment at temperatures below 50°C. Exposure to direct sunlight should be avoided, as this may lead to product deterioration.

#### **Regulatory Information**

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, send an email to psnohreg@innovene.com. Unless specifically indicated, the products mentioned herein are not suitable for applications in the medical or pharmaceutical sector.

#### Health and Safety Information

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Material Safety Data Sheet (MSDS) that may be obtained from the website <a href="https://www.ineospolyolefins.com">www.ineospolyolefins.com</a>. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

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