Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

21D430

Product Technical Information

LDPE for Blown film

Applications

- 21D430 is particularly suitable for heavy duty film applications such as sacks, pallet shrink wrap and agricultural film.

Characteristics

21D430 is an autoclave LDPE homopolymer. It offers the following properties:

- Very high impact strength
- Excellent bubble stability
- Low slip film

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

We recommend that you consult your INEOS technical representative for further advice on the use of 21D430.

Properties		Test Methods	Values	Units
Physical				
Melt Flow Rate		ISO 1133 Condition 4	0.25	g/10min
Conventional density (conditioning ISO 1872/1)		ISO 1183 Method D	923	kg/m³
Vicat Softening temperature		ISO 306 Method A	97	°C
Additive free				
Film*				
Dart drop impact	Method A	ASTM D1709	460	g
Tensile stress @ yield	MD/TD	ISO 1184	11/11	MPa
Tensile stress @ break	MD/TD	ISO 1184	26/25	MPa
Elongation @ break	MD/TD	ISO 1184	300/500	%
1% Secant Modulus	MD/TD	ISO 1184	180/180	MPa
Coefficient of friction		ASTM D1894	> 0.5	-
Haze		ASTM D1003	15	%
Gloss (45°)		ASTM D2457	40	‰

- Data should not be used for specification work

* 100 µm film, 2.5:1 blow-up ratio, 180°C melt temperature - MD = machine direction TD = transverse direction

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Extrusion conditions

21D430 can be processed on all commercial cast film extruders over the melt temperature range 240 - 280°C or blown film extruders over the melt temperature range 160-185°C. Film can be drawn down approximatively 25µm under ideal extrusion conditions

Storage

21D430 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@ineos.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 www.ineospolyolefins.com. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

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