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

23H430

Product Technical Information

LDPE for Film

Applications

23H430 is suitable for a variety of general-purpose packaging films, liners, carrier bags and fine shrink film. It is also recommended for cross-linked foam as well as for blow-moulding applications.

Benefits and Features

23H430 is an autoclave LDPE homopolymer. It offers the following properties:

- Good strength and dart drop resistance
- 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 O&P Europe technical representative for further advice on the use of 23H430.

Properties		Test Method	Value	Units
Physical				
Melt flow rate		ISO 1133 Condition 4	2.0	g/10 min
Density				
Conditioning ISO 1872/1		ISO 1183 Method D	923	kg/m^3
Vicat softening temperature		ISO 306 Method A	95	°C
Additive free				
Film*				
Dart drop impact		ASTM D1709 Method A	140	g
Tensile stress at yield	MD/TD	ISO 1184	11/12	MPa
Tensile stress at break	MD/TD	ISO 1184	22/20	MPa
Elongation at break	MD/TD	ISO 1184	250/550	%
1% Secant modulus		ISO 1184	180	MPa
Coefficient of friction		ASTM D1894	>0.5	
Haze		ASTM D1003	10	%
Gloss (45°)		ASTM D2457	55	‰

- Data should not be used for specification work

* 50 µm film, 2.5:1 blow-up ratio, 170°C melt temperature - MD = machine direction TD = transverse direction

March, 2011

Published by

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Extrusion conditions

23H430 can be processed on all commercial blown line film extruders over the melt temperature range 160 – 185°C. Film can be drawn down to approximately 25 µm under ideal extrusion conditions.

Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration. It is advised to process the product within maximum one year after delivery.

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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