



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



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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.