



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/m ³
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.