

INEOS LDPE 21D430

Low Density Polyethylene
INEOS Olefins & Polymers Europe

Message:

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

Characteristics
21D430 is an easily extrudable 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 38-48N/m.

General Information			
Features	Low smoothness		
	Impact resistance, high		
Uses	Films		
	Shrinkable film		
	Heavy packing bag		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
	Filament power winding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.26	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	> 0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	100	µm	
Tensile Modulus			ISO 1184
1% secant, MD: 100 µm	180	MPa	ISO 1184
1% secant, TD: 100 µm	180	MPa	ISO 1184
Tensile Stress			ISO 1184
MD: Yield, 100 µm	11.0	MPa	ISO 1184
TD: Yield, 100 µm	11.0	MPa	ISO 1184
MD : 100 µm	26.0	MPa	ISO 1184
TD : 100 µm	25.0	MPa	ISO 1184

Tensile Elongation			ISO 1184
MD: Break, 100 μm	300	%	ISO 1184
TD: Break, 100 μm	500	%	ISO 1184
Dart Drop Impact (100 μm)	460	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 100 μm)	40		ASTM D2457
Haze (100 μm)	15	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	240 - 280	°C	
Extrusion instructions			

Cast Film Extruders: 240 to 280°C Blown Film Extruders: 160 to 185°C

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