



DOW™ LDPE 132I

The Dow Chemical Company - Low Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

- A barefoot resin for heavy duty film applications
- Optimum gauge range: 2.0-6.0 mil
- Used in shrink film, shipping sacks, construction film and other gauge film applications
- Complies with U.S. FDA 21 CFR 177.1520 (c) 2.2.
- Complies with Canadian HPFB No Objection (With Limitations)
- Complies with EU, No 10/2011
- Complies with U.S. FDA-DMF
- Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• DMF Unspecified Rating	• FDA 21 CFR 177.1520(c) 2.2	
	• EU No 10/2011	• HPFB (Canada) No Objection ¹	
Forms	• Pellets		
Processing Method	• Blown Film		

ASTM & ISO Properties ²

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.923		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	0.25	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	2	mil	
Film Puncture Resistance (2.0 mil)	69.0	ft·lb/in ³	Internal Method
Film Toughness - MD (2.0 mil)	2610	ft·lb/in ³	ASTM D882
Film Toughness - TD (2.0 mil)	2560	ft·lb/in ³	ASTM D882
Tensile Strength - MD (Yield, 2.0 mil)	1750	psi	ASTM D882
Tensile Strength - TD (Yield, 2.0 mil)	1750	psi	ASTM D882
Tensile Strength - MD (Break, 2.0 mil)	4610	psi	ASTM D882
Tensile Strength - TD (Break, 2.0 mil)	4190	psi	ASTM D882
Tensile Elongation - MD (Break, 2.0 mil)	470	%	ASTM D882
Tensile Elongation - TD (Break, 2.0 mil)	660	%	ASTM D882
Dart Drop Impact (2.0 mil)	190	g	ASTM D1709A
Elmendorf Tear Strength - MD (2.0 mil)	300	g	ASTM D1922
Elmendorf Tear Strength - TD (2.0 mil)	180	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	205	°F	ASTM D1525
Melting Temperature (DSC)	230	°F	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 2.00 mil)	50		ASTM D2457
Haze (2.00 mil)	11.3	%	ASTM D1003

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Extrusion Notes

Fabrication Conditions For Blown Film:

- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D
- Screw Type: Single Flight Double Mix
- Die Gap: 40 mil (1.02 mm)
- Melt Temperature: 420°F (215°C)
- Output: 8 lb/hr/in. of die circumference
- Die Diameter: 6 in.
- Blow-Up Ratio: 2.5:1

Notes

¹ With limitations

² Typical properties: these are not to be construed as specifications.