

Technical Information



DOW™ LDPE 135A

Low Density Polyethylene Resin

Overview

- A slip and antiblock additive resin for heavy duty film applications
- Optimum gauge range: 2.0 - 6.0 mil
- Used for shrink film, shipping sacks, construction film and other thick gauge film applications

Complies with:

- U.S. FDA 21 CFR 177.1520 (c) 2.1
- CANADIAN HPFB NO OBJECTION (With Limitations)
- EU, No 10/2011

Additive

- Antiblock: 3000 ppm
- Slip: 800 ppm
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.923 g/cm³	0.923 g/cm³	ASTM D792
Base Density ¹	0.921 g/cm³	0.921 g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	0.25 g/10 min	0.25 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2.0 mil	51 µm	
Film Puncture Resistance (2.0 mil (51 µm))	43.0 ft·lb/in³	3.56 J/cm³	Dow Method
Film Toughness			ASTM D882
MD : 2.0 mil (51 µm)	1760 ft·lb/in³	146 J/cm³	
TD : 2.0 mil (51 µm)	2350 ft·lb/in³	195 J/cm³	
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (51 µm)	1830 psi	12.6 MPa	
TD : Yield, 2.0 mil (51 µm)	1810 psi	12.5 MPa	
MD : Break, 2.0 mil (51 µm)	4000 psi	27.6 MPa	
TD : Break, 2.0 mil (51 µm)	3980 psi	27.4 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (51 µm)	330 %	330 %	
TD : Break, 2.0 mil (51 µm)	640 %	640 %	
Dart Drop Impact (2.0 mil (51 µm))	250 g	250 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (51 µm)	170 g	170 g	
TD : 2.0 mil (51 µm)	180 g	180 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	204 °F	95.6 °C	ASTM D1525
Melting Temperature (DSC)	232 °F	111 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 2.00 mil (50.8 µm))	49	49	ASTM D2457
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	422 °F	217 °C	



Extrusion Notes

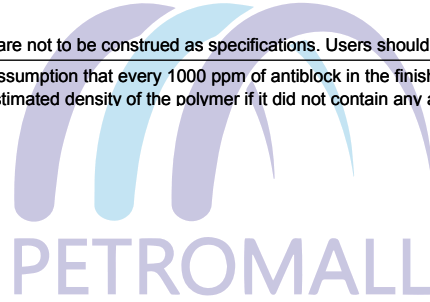
Fabrication Conditions For Blown Film:

- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D/Size
- Screw Type: Single Flight Double Mix
- Die Gap: 40 mil (1.02 mm)
- Melt Temperature: 422 °F (217 °C)
- Output: 10 lb/hr/in. of die circumference
- Die Diameter: 6 in.
- Blow-Up Ratio: 2.5:1
- Screw Speed: 98 rpm

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.



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