



DOW™ LDPE 132G

Low Density Polyethylene Resin

Overview

DOW LDPE™ 132G Low Density Polyethylene Resin can be readily extruded using conventional blown film techniques utilizing melt temperatures between 170 and 230°C. This resin, when properly fabricated, shows an excellent combination of processability, stiffness and physical properties. This product does not contain slip nor antiblock additives.

Note: Complies with:

- U.S. FDA 21 CFR 177.1520(c)2.2
- EU, No 10/2011
- Consult the regulations for complete details

Applications:

- Heavy duty industrial film
- Shrink film

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.921 g/cm ³	0.921 g/cm ³	ASTM D792
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 mil	51 µm	
Film Toughness			ASTM D882
MD : 2.0 mil (51 µm)	2610 ft·lb/in ³	216 J/cm ³	
TD : 2.0 mil (51 µm)	2560 ft·lb/in ³	211 J/cm ³	
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (51 µm)	1750 psi	12.1 MPa	
TD : Yield, 2.0 mil (51 µm)	1750 psi	12.1 MPa	
MD : Break, 2.0 mil (51 µm)	4610 psi	31.8 MPa	
TD : Break, 2.0 mil (51 µm)	4190 psi	28.9 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (51 µm)	470 %	470 %	
TD : Break, 2.0 mil (51 µm)	660 %	660 %	
Dart Drop Impact (2.0 mil (51 µm))	190 g	190 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (51 µm)	300 g	300 g	
TD : 2.0 mil (51 µm)	180 g	180 g	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 2.00 mil (50.8 µm))	50	50	ASTM D2457
Haze (2.00 mil (50.8 µm))	11.0 %	11.0 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	420 °F	216 °C	

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

