

DOW™ LDPE 352E

Low Density Polyethylene Resin

The Dow Chemical Company



Prospector

Product Description

DOW LDPE 352E Low Density Polyethylene Resin is a high clarity resin designed for clarity over wrap applications. This resin does contain erucamide slip and antiblock additives. It can be readily extruded using conventional blown film techniques utilising melt temperatures between 160 and 175 °C.

This resin when properly fabricated exhibits:

- Excellent processability and draw down.
- Outstanding toughness and impact properties.
- Superior optical properties.
- Excellent tensile and tear strength.

Applications:

- Light-produce bags.
- Soft goods packaging.
- Textile packaging.
- Good optical general purpose bags.
- Hygiene films.
- Food packaging films.

Complies with:

- CANADIAN HPFB NO OBJECTION (WITH LIMITATIONS)
- EU, No 10/2011
- U.S. FDA 21 CFR 177.1520(c)2.2

Consult the regulations for complete details.

General

Material Status	• Commercial: Active
Availability	• Europe
Additive	• Antiblock • Erucamide Slip
Agency Ratings	• EU No 10/2011 • FDA 21 CFR 177.1520 • HPFB (Canada) No Objection
Forms	• Pellets

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.925 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 g/10 min	ISO 1133

Mechanical	Nominal Value Unit	Test Method
Coefficient of Friction vs. Itself - Dynamic	0.15 to 2.0	ASTM D1894

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	50 µm	
Secant Modulus		ASTM D882
2% Secant, MD: 50 µm	190 MPa	
2% Secant, TD: 50 µm	210 MPa	
Tensile Strength		ASTM D882
MD: Yield, 50 µm	10.0 MPa	
TD: Yield, 50 µm	11.0 MPa	
MD: Break, 50 µm	22.0 MPa	
TD: Break, 50 µm	20.0 MPa	
Tensile Elongation		ASTM D882
MD: Break, 50 µm	450 %	
TD: Break, 50 µm	650 %	
Dart Drop Impact (50 µm)	110 g	ASTM D1709A
Elmendorf Tear Strength		ASTM D1922
MD: 50 µm	450 g	
TD: 50 µm	350 g	

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	96.0 °C	ISO 306/A

Optical	Nominal Value Unit	Test Method
Gloss (20°, 50.0 µm)	60	ASTM D2457

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Revision History

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The information presented on this datasheet was acquired by IDES from the producer of the material. IDES makes substantial efforts to assure the accuracy of this data. However, IDES assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

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Optical	Nominal Value Unit	Test Method
Haze (50.0 μm)	8.0 %	ASTM D1003

Extrusion	Nominal Value Unit
Melt Temperature	160 to 175 °C

Extrusion Notes
Film Blow-Up ratio 1:2.5

Notes

¹ Typical properties: these are not to be construed as specifications.

