

# DOW™ LDPE 352E

Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

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 Information			
Additive	Erucamide Lubricating Additive Anti-caking agent		
Agency Ratings	FDA 21 CFR 177.1520 HPFB (Canada) No Objection Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.925	g/cm <sup>3</sup>	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 - 0.20		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
secant modulus			ASTM D882
2% secant, MD: 50 µm	190	MPa	ASTM D882
2% secant, TD: 50 µm	210	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 µm	10.0	MPa	ASTM D882

TD: Yield, 50 μm	11.0	MPa	ASTM D882
MD: Break, 50 μm	22.0	MPa	ASTM D882
TD: Break, 50 μm	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 50 μm	450	%	ASTM D882
TD: Break, 50 μm	650	%	ASTM D882
Dart Drop Impact (50 μm)	110	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 50 μm	450	g	ASTM D1922
TD : 50 μm	350	g	ASTM D1922
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
Haze (50.0 μm)	8.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 175	°C	
Extrusion instructions			

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