DOW™ LDPE 410F

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW LDPE 410F Low Density Polyethylene Resin is a high clarity resin designed for lamination film and clarity over wrap applications. This resin does not contain slip and antiblock additives. It can be readily extruded using conventional blown film techniques utilizing melt temperatures between 170 and 195°C; and cast film using temperatures between 180 and 220°C. This resin when properly fabricated shows: excellent processability and draw down, outstanding toughness and impact properties, superior optical properties, excellent tensile and tear strength.
Main Characteristics:
DOW LDPE 410F Low Density Polyethylene Resin should comply with FDA regulation 177.1520 and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. Please, contact your nearest Dow office for food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.
Slip Additive: none
Antiblock Additive: none

General Information			
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.925	g/cm³	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)	0.60 - 0.80		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	200	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	500	g	ASTM D1922
TD : 50 µm	400	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)	80		ASTM D2457
Haze (50.0 µm)	6.9	%	ASTM D1003

Extrusion	Nominal Value	Unit
Melt Temperature	170 - 195	°C

Extrusion instructions
吹塑薄膜的制造条件:放大比 2.5 比 1

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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