DOWLEX™ 2042E

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™2042E polyethylene resin is an ethylene/1-octene copolymer, which is suitable for the production and processing of blown films. These blown films require good tear strength, excellent toughness, good stiffness and high temperature resistance.
Remarks: When used in the application field of contact with food, DOWLEX 2042E polyethylene resin should comply with the U.S. Food and Drug Administration regulations when it is unmodified and the processing process follows the requirements of good manufacturing practices. The requirements of the 177.1520, the Canadian Health Products and Food Agency (HPFB) -no objection (with restrictions) and the requirements of the food contact regulations of most European countries.
Please contact your nearest Dow representative for proof of compliance with the food contact law. The purchaser remains responsible for determining whether the use of its products complies with all relevant regulations.

General Information			
Agency Ratings	FDA 21 CFR 177.1520 HPFB (Canada) No Objection 2		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity [1]	0.930	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, Compression Molded)	57		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 2% Secant (Compression Molded)	340	MPa	ASTM D638
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	25	µm	
Film Puncture Energy (25 µm)	1.00	J	Internal method
Tensile Strength			ASTM D882
MD: Yield, 25 µm	14.0	MPa	ASTM D882
TD: Yield, 25 µm	17.0	MPa	ASTM D882
MD: Break, 25 µm	42.0	MPa	ASTM D882
TD: Break, 25 µm	41.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	830	%	ASTM D882
TD: Break, 25 µm	1100	%	ASTM D882
Dart Drop Impact (25 µm)	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	100	g	ASTM D1922

TD : 25 µm	620	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature [2]	118	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 25.0 µm)	30		ASTM D2457
Haze (25.0 µm)	12	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 240	°C	

Extrusion instructions
管形薄膜挤出的制造条件: 熔体温度:190 至 240°C. 放大比范围:1.5 至 3:1 建议的厚度范围:10 至 150 µm.

NOTE	
1.	Compression molding
2.	Compression molding

Recommended distributors for this material

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