DOWLEX™ 2042EC

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ 2042EC Polyethylene Resin is an ethylene/octene-1 copolymer suitable for the production of blown film requiring good tear strength and outstanding toughness with good stiffness and temperature resistance.
Note: DOWLEX 2042EC Polyethylene Resin should comply with FDA regulation 177.1520, Canadian HPFB No Objection (With Limitations) 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.

General Information			
Agency Ratings	FDA 21 CFR 177.1520 HPFB (Canada) No Objection European food contact, not rated		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.930	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
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 [1]			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	118	°C	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**

Gloss (20°, 24.9 μm)	30		ASTM D2457
Haze (24.9 μm)	12	%	ASTM D1003

Extrusion instructions
Fabrication Conditions For Tubular Film Extrusion: Melt Temperature: 190 to 240°C Blow-Up Ratio Range: 1.5 to 3:1 Recommended Gauge Range: 10 to 150 μm

NOTE	
1.	Method B

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China