DOW™ LDPE 621I

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW LDPE 621I Resin is a low density polyethylene resin intended for foam and blown film applications requiring high melt strength.
Specialty resin designed for high melt strength applications
Provides excellent bubble stability
Complies with:
U.S. FDA 21 CFR 177.1520 (c) 2.1
Canadian HPFB No Objection
Consult the regulations for complete details.

General Information	
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1 HPFB (Canada) No Objection
Forms	Particle
Processing Method	Blow film Foam treatment

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	51	µm	
Film Puncture Resistance (51 µm)	3.56	J/cm³	Internal method
Film strength			ASTM D882
MD : 51 µm	140	J/cm³	ASTM D882
TD : 51 µm	148	J/cm³	ASTM D882
secant modulus			ASTM D882
2% secant, MD: 51 µm	166	MPa	ASTM D882
2% secant, TD: 51 µm	208	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	11.6	MPa	ASTM D882
TD: Yield, 51 µm	11.0	MPa	ASTM D882
MD: Fracture, 51 µm	21.8	MPa	ASTM D882
TD: Fracture, 51 µm	19.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	450	%	ASTM D882
TD: Fracture, 51 µm	620	%	ASTM D882
Dart Drop Impact (51 µm)	96	g	ASTM D1709A

Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	320	g	ASTM D1922
TD : 51 µm	190	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	92.2	°C	ASTM D1525
Melting Temperature (DSC)	108	°C	Internal method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.8 µm)	40		ASTM D2457
Haze (50.8 µm)	16	%	ASTM D1003
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	218	°C	

Extrusion instructions

吹塑薄膜的制造条件:
螺杆尺寸:2.5 英寸 (63.5 mm) 30:1 L/D
模具间隙:40 密尔 (1.0 mm)
熔体温度:425°F (218°C)
输出:模具周长的 10 磅/小时/英寸
模具直径:6 英寸
放大比:2.5:1
螺杆速度:89 rpm
冷冻线高度:30 分钟 (762 mm)

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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WECHAT