

PRIMACOR™ 1430

Copolymer

The Dow Chemical Company

Message:

PRIMACOR™ 1430 is an ethylene acrylic acid copolymer that provides good sealability, hot tack and excellent adhesion to polar (foil, nylon, etc.) materials. It also provides excellent toughness, clarity and tear resistance.

Adhesive layer of sealant layer in flexible packaging structures

For blown or cast film extrusion

Used where adhesion to nylon or foil is desired

Complies with:

U.S. FDA 21 CFR 177.1310(a)(1)

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Agency Ratings		FDA 21 CFR 177.1310 (a) 1 Europe No 10/2011	
Forms		Particle	
Processing Method		Blow film cast film	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) ¹ (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238, ISO 1133
Comonomer Content ²	9.7	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, molding ³	7.67	MPa	ASTM D638
Yield, molding	7.67	MPa	ISO 527-2/508
Fracture, molding ⁴	19.5	MPa	ASTM D638
Fracture, molding	19.5	MPa	ISO 527-2/508
Tensile Elongation			
Fracture, molding ⁵	580	%	ASTM D638
Fracture, molding	580	%	ISO 527-2/508
Films	Nominal Value	Unit	Test Method
Tensile Strength			
MD: Yield, 51 µm	10.4	MPa	ASTM D882
TD: Yield, 51 µm	10.2	MPa	ASTM D882
MD: Yield, 51 µm	10.4	MPa	ISO 527-3
TD: Yield, 51 µm	10.2	MPa	ISO 527-3
MD: Fracture, 51 µm	30.6	MPa	ASTM D882, ISO 527-3

TD: Fracture, 51 μm	31.0	MPa	ASTM D882, ISO 527-3
Tensile Elongation			ASTM D882, ISO 527-3
MD: Fracture, 51 μm	420	%	ASTM D882, ISO 527-3
TD: Fracture, 51 μm	470	%	ASTM D882, ISO 527-3
Elmendorf Tear Strength ⁶			
MD : 51 μm	470	g	ASTM D1922
TD : 51 μm	730	g	ASTM D1922
MD : 51 μm	2100	N	ISO 6383-2
TD : 51 μm	3300	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	76.1	°C	ASTM D1525, ISO 306
Melting Temperature (DSC)	96.1	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.8 μm)	74		ASTM D2457
Haze			
50.8 μm	4.0	%	ISO 14782
50.8 μm	4.0	%	ASTM D1003
Extrusion instructions			

挤出涂层薄膜的制造条件:用于处理此树脂的设备应由耐腐蚀材料制成.建议模具和适配器采用不锈钢和/或双面镀铬或镀镍.

螺杆尺寸:2.5 英寸 (63.5 mm);30:1 L/D
 螺杆类型:带 Maddock Mixer 的单跨型
 模具间隙:40 密尔 (1.0 mm)
 熔体温度:384°F (196°C)
 输出:模具周长的 6 磅/小时/英寸
 模具直径:6 英寸
 放大比:2.5:1
 冷冻线高度:29 英寸 (737 mm)

NOTE	
1.	As measured during production.
2.	The comonomer content measured by Dow attribute method has the same accuracy as ASTM D 4094.
3.	510 mm/min
4.	510 mm/min
5.	510 mm/min
6.	The comonomer content measured by Dow attribute method has the same accuracy as ASTM D 4094.

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