

DOW™ LDPE 692 LDPE HEALTH+™

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW™ LDPE 692 HEALTH+™ is a Low Density Polyethylene barefoot resin designed for extrusion blow molding, injection blow molding, and blow-fill seal applications with good flexibility, moderate rigidity and good chemical resistance. It is also suitable for medical packaging films.

Main Characteristics:

Good flexibility

Good chemical resistance

Good stiffness

Complies with:

U.S. FDA 21CFR 177.1520 (c) 2.1

USP XXIII Class VI

Drug Master File Listing

Consult the regulations for complete details.

General Information			
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 2.1		
	USP Class VI		
Forms	Particle		
Processing Method	Extrusion blow molding		
	Injection blowing molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Puncture Resistance (51 µm)	4.96	J/cm ³	Internal method
Film strength			ASTM D882
MD : 51 µm	197	J/cm ³	ASTM D882
TD : 51 µm	211	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	12.6	MPa	ASTM D882
TD: Yield, 51 µm	11.4	MPa	ASTM D882
MD: Fracture, 51 µm	29.7	MPa	ASTM D882
TD: Fracture, 51 µm	28.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	480	%	ASTM D882
TD: Fracture, 51 µm	680	%	ASTM D882
Dart Drop Impact (51 µm)	150	g	ASTM D1709A

Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	280	g	ASTM D1922
TD : 51 µm	350	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.8	°C	ASTM D1525
Melting Temperature (DSC)	112	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.8 µm)	70		ASTM D2457
Haze (50.8 µm)	8.6	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	230	°C	
Extrusion instructions			

吹塑薄膜的制造条件:

螺杆尺寸:2.5 英寸 (63.5 mm);24:1 L/D

螺杆类型:单跨双混合

模具间隙:40 密尔 (1.0 mm)

熔体温度:446 °F (230 °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:88 rpm

冷冻线高度:23.5 英寸 (597 mm)

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