

# SureSpec LLC4-500

Linear Low Density Polyethylene

Genesis Polymers

Message:

LLC4-500 is a certified prime grade, containing Butene-ethylene copolymer designed for High-Flow INJECTION MOLDING of thin-walled high quality applications. LLC4-500 features superior processability over a wide range of molding conditions, fast cycle times, very good rigidity, high gloss surface, low temperature toughness, and warpage free moldings. LLC4-500 applications include housewares, margarine tubs, small to medium containers, trash cans, toys, and multicavity lids, closures and caps, where excellent toughness, good impact strength and high gloss are required. Recommended processing temperature is 170 to 210°C., with mold at 20 to 40°C. LLC4-500 complies with FDA regulation 21CFR 177.1520 (c) 3.1 (a) and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Butene Comonomer		
	Copolymer		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	Good Toughness		
	High Flow		
	High Gloss		
	High Rigidity		
	Low Density		
	Low Temperature Toughness		
	Low Warpage		
Uses	Caps		
	Closures		
	Containers		
	Household Goods		
	Lids		
	Thin-walled Parts		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	55	g/10 min	ASTM D1238

Environmental Stress-Cracking Resistance (50°C, F50)	5.00	hr	ASTM D1693
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength <sup>1</sup> (Yield)	13.8	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	100	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	517	MPa	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Impact Strength	52.5	kJ/m <sup>2</sup>	ASTM D1822
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Processing (Melt) Temp	170 to 210	°C	
Mold Temperature	20.0 to 40.0	°C	
<b>NOTE</b>			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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#### 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

