

# SureSpec LLC6-500

Linear Low Density Polyethylene

Genesis Polymers

Message:

LLC6-500 is a copolymer certified prime resin designed for High-Flow Injection Molding of thin-walled, high quality applications. LLC6-500 features easy processability over a wide range of molding conditions, high gloss surface, good rigidity, fast cycle times, low temperature toughness and warpage free moldings. Suggested processing temperature is 170 to 210°C, with the mold at 20 to 40°C. LLC6-500 complies with FDA regulation 21CFR 177.1520 (c) 3.1a and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Copolymer		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Processability		
	High Flow		
	High Gloss		
	Low Density		
	Low Temperature Toughness		
	Low Warpage		
	Medium Rigidity		
Uses	Thin-walled Parts		
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)	50	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, F50)	5.00	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	15.2	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	90	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	448	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	440	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-65.0	°C	ASTM D746
Vicat Softening Temperature	91.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	170 to 210	°C	

Mold Temperature	20.0 to 40.0	°C
NOTE		
1.	510 mm/min	
2.	510 mm/min	
3.	1.3 mm/min	

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#### Recommended distributors for this material

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