

SureSpec LLC4-200

Linear Low Density Polyethylene

Genesis Polymers

Message:

LLC4-200 is a Butene-ethylene copolymer certified prime resin designed for INJECTION MOLDING applications that require a good balance of good mechanical properties and low warpage and low temperature resistance. LLC4-200 features easy processability over a wide range of molding conditions, good flexibility, and high surface appearance of molded articles. LLC4-200 is ideal for when excellent toughness, high impact strength and high gloss are required. Recommended processing temperature is 180 to 220°C., with mold at 20 to 40°C. LLC4-200 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		
	Food Contact Acceptable		
	Good Flexibility		
	Good Processability		
	Good Toughness		
	High Gloss		
	High Impact Resistance		
	Low Density		
	Low Temperature Resistant		
	Low Warpage		
	Pleasing Surface Appearance		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, F50)	19.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	12.4	MPa	ASTM D638
Tensile Elongation ² (Break)	500	%	ASTM D638
Flexural Modulus - 1% Secant ³	448	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	71.5	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -90.0	°C	ASTM D746
Injection	Nominal Value	Unit	

Processing (Melt) Temp	180 to 220	°C
Mold Temperature	20.0 to 40.0	°C
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	1.3 mm/min	

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Recommended distributors for this material

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