

SureSpec LD20-400

Low Density Polyethylene

Genesis Polymers

Message:

LD20-400 is a certified prime resin designed for High-Flow INJECTION MOLDING applications requiring good balance of mechanical and low warpage properties. LD20-400 features very good processability over a wide range of molding conditions, good clarity, excellent flexibility, and high surface appearance of molded articles. LD20-400 applications include housewares, lids, closures, overcaps, medical parts, and general purpose molded articles. Recommended processing temperature is 170 to 220°C, with mold at 20 to 40°C. LD20-400 complies with FDR regulation 21CFR 177.1520 (c) 2.2 and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Food Contact Acceptable		
	Good Flexibility		
	Good Processability		
	High Flow		
	Low Density		
	Low Warpage		
	Medium Clarity		
	Pleasing Surface Appearance		
Uses	Caps		
	Closures		
	General Purpose		
	Household Goods		
	Lids		
	Medical/Healthcare Applications		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	40	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	13.8	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus - 1% Secant ³	317	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ⁴	73.6	kJ/m ²	ASTM D1822
Injection	Nominal Value	Unit	
Processing (Melt) Temp	170 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	
4.	2.0 in/min	

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Recommended distributors for this material

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