

# SureSpec LD20-040

Low Density Polyethylene

Genesis Polymers

Message:

LD20-040 is a certified prime resin developed for EXTRUSION of good clarity Blown Film for packaging of articles requiring good opticals. LD20-040 features easy processability, and optimal balance of film strength, stiffness, good openability and excellent sealability. Maximum recommended film drawdown is 1.0 mil. LD20-040 contains medium slip and medium antiblock. LD20-040 complies with FDA regulation 21CFR 177.1520 (c) 2.2 and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Additive	Medium Antiblock		
	Medium Slip		
Features	Food Contact Acceptable		
	Good Processability		
	Good Stiffness		
	Good Strength		
	Low Density		
	Medium Antiblocking		
	Medium Clarity		
	Medium Slip		
	Opticals		
Uses	Blown Film		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Processing Method	Blown Film		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 32 µm	186	MPa	
1% Secant, TD : 32 µm	228	MPa	ASTM D882
Tensile Strength			

MD : Yield,32 μm	10.0	MPa	
TD : Yield,32 μm	12.0	MPa	
MD : Break, 32 μm	24.0	MPa	
TD : Break, 32 μm	17.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 μm	360	%	
TD : Break, 32 μm	700	%	
Dart Drop Impact <sup>1</sup> (25 μm)	80	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 32 μm	560	g	
TD : 32 μm	160	g	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 μm, Blown Film)	70		ASTM D2457
Haze (31.8 μm, Blown Film)	6.0	%	ASTM D1003
NOTE			
1.	F50		

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#### Recommended distributors for this material

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