

SureSpec LD20-020

Low Density Polyethylene

Genesis Polymers

Message:

LD20-020 is a certified prime resin specially designed to meet the requirements of most 1 to 3 mils thickness Blown film liner applications. LD20-020 features easy processability. Large lot size and superior lot-to-lot uniformity ensure consistent film production. Minimum recommended film thickness is 1.0 mil. LD20-020 contains no slip and no antiblock. LD20-020 complies with FDA regulation 21CFR 177.1520 (c) 2.1 + 2.2 and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Low Density		
Uses	Blown Film		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
	FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 38 µm	175	MPa	
1% Secant, TD : 38 µm	205	MPa	ASTM D882
Tensile Strength			
MD : Yield,38 µm	10.0	MPa	
TD : Yield,38 µm	10.0	MPa	
MD : Break, 38 µm	25.0	MPa	
TD : Break, 38 µm	19.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 38 µm	350	%	
TD : Break, 38 µm	600	%	ASTM D1709A
Dart Drop Impact (38 µm)	85	g	
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	580	g	
TD : 38 µm	120	g	

Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	10		ASTM D2457
Haze (25.0 µm, Blown Film)	1.5	%	ASTM D1003

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