

SureSpec LLC6-020

Linear Low Density Polyethylene

Genesis Polymers

Message:

LLC6-020 is an Ethylene-Hexene copolymer certified prime resin for CAST Flat-Die extrusion of film applications requiring high strength, toughness, excellent clarity, low stiffness, and good tensile properties. LLC6-020 contains no slip and no antiblock. LLC6-020 complies with FDA regulation 21CFR 177.1520(c) 3.1a, and with most international regulations concerning the use of Polyethylene in contact with food articles.

AVAILABLE ADDITIVES

B = Barefoot

A = 0 Slip/ High Antiblock

F = Full Additives

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Toughness		
	Hexene Comonomer		
	High Clarity		
	High Strength		
	Low Density		
Uses	Cast Film		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	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	20	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 20 µm	150	MPa	
1% Secant, TD : 20 µm	170	MPa	ASTM D882
Tensile Strength			
MD : Yield,20 µm	9.65	MPa	
TD : Yield,20 µm	10.3	MPa	
MD : Break, 20 µm	38.6	MPa	
TD : Break, 20 µm	30.3	MPa	
Tensile Elongation			ASTM D882
MD : Break, 20 µm	500	%	
TD : Break, 20 µm	800	%	

Dart Drop Impact ¹ (20 μm)	95	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 20 μm	280	g	
TD : 20 μm	450	g	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.3 μm, Blown Film)	90		ASTM D2457
Haze (20.3 μm, Blown Film)	2.0	%	ASTM D1003
NOTE			
1.	F50		

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