

# SureSpec HW50-001

High Density Polyethylene

Genesis Polymers

## Message:

HW50-001 is a High Molecular Weight Hexene Copolymer certified prime resin developed for blown films. HW50-001 features UNIMODAL molecular weight distribution for improved processability at lower extruder pressure and good film stiffness. HW50-001 can be used alone or in BLENDS with LLDPE blown film grades and/or HMW-HDPE. HW50-001 can be used in a broad range of applications blended from 10% to 50% with either HMW-HDPE and/or LLDPE. HW50-001 can be processed on HMW, high stalk film equipment with a die gap >0.75 to 1.25< mm.. Recommended processing temperatures 195 to 205°C. HW50-001 complies with FDR regulation 21CFR 177.1520 (c) 3.1 (a) + 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Processability		
	Good Stiffness		
	Hexene Comonomer		
	High Density		
	High Molecular Weight		
Uses	Blending		
	Blown Film		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	< 0.10	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	12	µm	ASTM D882
Tensile Strength			
MD : Yield, 12 µm	26.0	MPa	ASTM D882
TD : Yield, 12 µm	14.0	MPa	
MD : Break, 12 µm	61.0	MPa	ASTM D882
TD : Break, 12 µm	27.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 µm	300	%	
TD : Break, 12 µm	410	%	

Dart Drop Impact <sup>1</sup> (12 μm)	200	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 12 μm	15	g	
TD : 12 μm	25	g	
Extrusion	Nominal Value	Unit	
Melt Temperature	195 to 205	°C	
NOTE			
1.	F50		

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#### Recommended distributors for this material

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