

# CERTENE™ HWF-0150

High Density Polyethylene  
Muehlstein

Message:

HWF-0150 is a certified prime grade Hexene copolymer HIGH MOLECULAR WEIGHT developed for blown films. HWF-0150 can be used alone or in BLENDS with HMW-HDPE and/or LLDPE Blown film grades. HWF-0150 features UNIMODAL molecular weight distribution for improved processability at lower extruder pressure and good film stiffness. HWF-0150 can be used in a broad range of applications blended from 10% to 50% with either HMW-HDPE and/or LLDPE. HWF-0150 can be processed on HMW, high stalk film equipment with a die gap >0.75 to 1.25< mm.. HMF-0150 applications include industrial and trash can liners, as well as T-shirt bags. Recommended processing temperatures 195 to 205°C. HWF-0150 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	Rigid, good		
	Copolymer		
	hexene comonomer		
	Workability, good		
	Compliance of Food Exposure		
Uses	Films		
	Lining		
	Bags		
	Industrial application		
	Mixing		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Blow 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	
Tensile Strength			ASTM D882
MD: Yield, 12 µm	26.0	MPa	ASTM D882
TD: Yield, 12 µm	14.0	MPa	ASTM D882
MD: Break, 12 µm	61.0	MPa	ASTM D882
TD: Break, 12 µm	27.0	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Break, 12 μm	300	%	ASTM D882
TD: Break, 12 μm	410	%	ASTM D882
Dart Drop Impact <sup>1</sup> (12 μm)	200	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 12 μm	15	g	ASTM D1922
TD : 12 μm	25	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	130	°C	ASTM D3417
Additional Information			
Film Specimen: 0.5 mil (12 μm) film, melt temperature 410-440°F (210-225°C), blow-up-ratio 4.0:1, frost line height 5 x die ø.			
NOTE			
1.	F50		

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#### Recommended distributors for this material

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