

# CERTENE™ HWF-0150

High Density Polyethylene

Muehlstein

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## Technical Data

### Product Description

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.. HWF-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

Material Status	• Commercial: Active		
Availability	• Latin America		
Features	• Copolymer • Food Contact Acceptable	• Good Processability • Good Stiffness	• Hexene Comonomer
Uses	• Bags • Blending	• Film • Heavy-duty Bags	• Industrial Applications • Liners
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/cm³	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	
TD : Yield, 12 µm	14.0 MPa	
MD : Break, 12 µm	61.0 MPa	
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>2</sup> (12 µm)	200 g	ASTM D1709A
Elmendorf Tear Strength		ASTM D1922
MD : 12 µm	15 g	
TD : 12 µm	25 g	

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.

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> F50



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### Where to Buy

#### Supplier

##### **Muehlstein**

Norwalk, CT USA

**Telephone:** 800-257-3746

**Web:** <http://www.muehlstein.com/>

#### Distributor

Please contact the supplier to find a distributor for CERTENE™ HWF-0150

