

# CERTENE™ LLHF-0825F

Linear Low Density Polyethylene  
Muehlstein

Message:

LLHF-0825F is a certified prime, hexene copolymer designed for production of Blown films requiring a combination of good film toughness and stiffness. LLHF-0825F applications include heavy duty bags, liners and industrial packaging. LLHF-0825F contains high slip, high antiblock and process aid. LLHF-0825F 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.

General Information			
Additive	High smoothness		
	High caking resistance		
	Processing aid		
Features	Rigid, good		
	High smoothness		
	High caking resistance		
	Copolymer		
	hexene comonomer		
	Good toughness		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Lining		
	Bags		
	Industrial application		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
1% secant, MD: 25 µm	290	MPa	ASTM D882
1% secant, TD: 25 µm	345	MPa	ASTM D882

Tensile Strength			ASTM D882
MD: Break, 25 µm	55.2	MPa	ASTM D882
TD: Break, 25 µm	34.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	400	%	ASTM D882
TD: Break, 25 µm	700	%	ASTM D882
Dart Drop Impact <sup>1</sup> (25 µm)	130	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	300	g	ASTM D1922
TD : 25 µm	650	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 25.4 µm, Blown Film)	65		ASTM D2457
Haze (25.4 µm, Blown Film)	18	%	ASTM D1003
Additional Information			
Film Specimen: 1.0 mils (25 µm) film; blow-up-ratio 2.5 :1; Melt temperature 440°F			
Extrusion	Nominal Value	Unit	
Melt Temperature	227	°C	
NOTE			
1.	F50		

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