

CERTENE™ HWF-849A

High Density Polyethylene
Muehlstein

Message:

HWF-849A is a certified prime bi-modal HIGH MOLECULAR WEIGHT HDPE butene copolymer developed for production of thin gauged Blown films. HWF-849A features a balance of good dart impact, good stiffness and excellent processability. HWF-849A applications include retail bags, consumer / industrial liners and heavy-duty bags. HWF-849A complies with FDA regulation 21CFR 177.1520.

General Information			
Features	Butene comonomer		
	Rigid, good		
	High molecular weight		
	Copolymer		
	Impact resistance, good		
	Workability, good		
	Compliance of Food Exposure		
	Bimodal molecular weight distribution		
Uses	Films		
	Lining		
	Bags		
	Industrial application		
	Consumer goods application field		
	Heavy packing bag		
Agency Ratings		FDA 21 CFR 177.1520	
Forms		Particle	
Processing Method		Blow film	
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.040	g/10 min	ASTM D1238
190°C/21.6 kg	8.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	13	µm	
Tensile Strength			ASTM D882
MD: Broken, 13 µm	62.0	MPa	ASTM D882
TD: Broken, 13 µm	28.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 13 µm	300	%	ASTM D882
TD: Broken, 13 µm	410	%	ASTM D882

Dart Drop Impact ¹ (13 μm)	210	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 13 μm	15	g	ASTM D1922
TD : 13 μm	25	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	130	°C	DSC
Additional Information			
Film Specimen: 0.5 mil (13 μm) film, blow-up-ratio 4.0:1, stalk height 5 times the die ø.			
NOTE			
1.	F50		

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