CERTENE™ HMF-0856

High Density (MMW) Polyethylene

Muehlstein

Message:

HMF-0856 is a certified prime grade Hexene copolymer MEDIUM MOLECULAR WEIGHT developed for production of thin gauged high stiffness paper-like Blown films. HMF-0856 features BROAD molecular weight distribution for improved processability at lower extruder pressure, excellent film drawdown, and good combination of high film stiffness with good film strength and improved barrier properties. HMF-0856 can be easily processed in HMW high stalk film equipment or in conventional film lines equipped with die gap = 0.75 to 1.25 = mm.. HMF-0856 applications include deli, meat & cheese wrap films, cereal box liners, notion and millinery bags, small shoppers, multi-wall and single liners, lamination films, coextrusion of films for stand-up-still pouches, and as substitute films for grease-proof waxed and acid free papers. Minimum recommended film gauge is 12 microns (0.5 mil), and processing temperature 195° to 205° C. HMF-0856 complies with FDR regulation 21CFR 177.1520 (c) 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information	
Features	Rigidity, high
	Copolymer
	hexene comonomer
	Workability, good
	Wide molecular weight distribution
	Good stripping
	Compliance of Food Exposure
	Medium molecular weight
Uses	Films
	Laminate
	Lining
	Bags
	Food packaging
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a
Forms	Particle
Processing Method	Blow film
	Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm³	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	31	µm	
Film Thickness - Recommended / Available	Minimum 12 µm (0.5 mil)		
secant modulus			ASTM D882
1% secant, MD: 31 µm, blown film	860	MPa	ASTM D882

1% secant, TD: 31 µm, blown film	1040	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 31 µm, blown film	24.0	MPa	ASTM D882
TD: Yield, 31 µm, blown film	14.0	MPa	ASTM D882
MD: Broken, 31 µm, blown film	52.0	MPa	ASTM D882
TD: Broken, 31 µm, blown film	19.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 31 µm, blown film	570	%	ASTM D882
TD: Broken, 31 µm, blown film	490	%	ASTM D882
Dart Drop Impact [1] (31 µm, blown film)	75	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 31 µm, blown film	15	g	ASTM D1922
TD: 31 µm, blown film	560	g	ASTM D1922

Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	130	°C	ASTM D3417

Additional Information
Film Specimen: 1.25 mil (31 µm) film, melt temperature 410-440°F (210-225°C), blow-up-ratio 4.0:1, frost line height 8 x die ø.

Extrusion	Nominal Value	Unit
Melt Temperature	195 - 205	°C

NOTE	
1.	F50

Recommended distributors for this material

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