CERTENE™ HWF-0852

High Density Polyethylene

Muehlstein

Message:

HWF-0852 is a certified High Molecular Weight Hexene copolymer grade, developed for production of thin-gauged high stiffness paper-like blown films. HWF-0852 features BIMODAL and BROAD molecular weight distribution which greatly improve processability in HDPE blow film equipment, offers outstanding film mechanical properties and high film drawdown. HWF-0852 applications include shoppers, grocery bags, merchant and produce bags, refuse sacks, single and multiwall liners, lamination and meat & cheese wrap films, and as substitute films for grease-proof waxed and acid free papers. Minimum recommended film gauge is 0.5 mil, and melt processing temperature between 210 to 230°C.

General Information			
Features	Rigidity, high Copolymer Workability, good Wide molecular weight distribution Grease resistance Compliance of Food Exposure		
Uses	Films Laminate Lining Bags Food packaging		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.952	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.050	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	
secant modulus			ASTM D882
1% secant, MD	790	MPa	ASTM D882
1% secant, TD	965	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	28.0	MPa	ASTM D882
TD: Yield	26.0	MPa	ASTM D882
MD: Fracture	69.0	MPa	ASTM D882
TD: Fracture	41.0	MPa	ASTM D882

Tensile Elongation			ASTM D882
MD: Fracture	330	%	ASTM D882
TD: Fracture	480	%	ASTM D882
Dart Drop Impact	280	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	20	g	ASTM D1922
TD	200	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	129	°C	ASTM D3417
Extrusion	Nominal Value	Unit	
Melt Temperature	210 - 230	°C	
Extrusion instructions			

Blow-up-ratio: 4.0:1Frost line height: 8 x die ø

Recommended distributors for this material

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