Braskem PE HDF1050

High Density Polyethylene

Braskem IDESA

Message:

HDF1050 is a high molecular weight high density polyethylene copolymer with broad bimodal weight distribution developed for the blown film segment. Films made with this degree offer high stiffness, good heat sealing response, and resistance to trait propagation. This material meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520.
Applications:
Very thin film on high-speed line, low caliber.
Process:
Blown Film Extrusion

General Information			
Features	Rigidity, high		
	High molecular weight		
	Good heat sealability		
	Compliance of Food Exposure		
	Bimodal molecular weight distribution		
Uses	Blown Film		
	Films		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow film		

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.060	g/10 min	ASTM D1238
190°C/21.6 kg	9.5	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Flow: Yield	30.0	MPa	ASTM D638
Transverse flow: Yield	26.0	MPa	ASTM D638
Flow: Fracture	75.0	MPa	ASTM D638
Transverse flow: Fracture	47.0	MPa	ASTM D638

Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD	760	MPa	ASTM D882
1% secant, TD	940	MPa	ASTM D882
Dart Drop Impact	360	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	40	g	ASTM D1922

TD	90	g	ASTM D1922

Recommended distributors for this material   Page 2

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