

CERTENE™ HPB-0360

High Density Polyethylene
Muehlstein

Message:

HPB-0360 is a certified prime grade homopolymer resin with a medium molecular weight distribution, high density that is outstanding due to high stiffness, Excellent melt uniformity and chemical inertness. The material is designed to be used in blown molding, blown film and thermoforming applications. HPB-0360 can be used to make food packaging, liquid food container for milk, water and juices, thermoformed parts and thin gauge sheet, as well as to improve stiffness and barrier properties in film when it could be used in the middle layer of coextrusion. HPB-0360 complies with FDA regulation 21CFR 177.1520(c)3.1a / 3.2a, and most international regulations for use in contact with food.

General Information			
Features	Rigidity, high		
	Homopolymer		
	Good chemical resistance		
	Compliance of Food Exposure		
Uses	Thermoforming Applications		
	Films		
	Blow molding applications		
	Sheet		
	Container		
	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Blow film		
	Blow molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.963	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.28	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal)	20.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	30.7	MPa	ASTM D638
Flexural Modulus - 1% Secant ²	1580	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	150	kJ/m ²	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-76.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525

Additional Information

Test made on injection molded Type 1 tension test specimen according to ASTM D 2146.

NOTE

1. 51 mm/min
2. 1.3 mm/min

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Recommended distributors for this material

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