

CERTENE™ HPB-0760

High Density Polyethylene

Muehlstein

Message:

HPB-0760 is a certified prime Phillips Process designed for BLOW MOLDING of containers for packaging of non-aggressive chemicals. HPB-0760 features low to medium swell, easy processability in conventional continuous extrusion equipment, good ESCR, good Impact strength, high Stiffness, improved Barrier, and low Odor and Taste. HPB-0760 applications include small to medium size thin wall bottle for milk, water and juices, wide mouth containers for body powders, and extrusion of sheet and profiles. HPB-0760 processing temperature is 140 to 165°C., with mold 10 to 30°C. HPB-0760 complies with FDA regulation 21CFR 177.1520 (c) 3.1(a) + 3.2(a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information	
Features	Barrier Resin Good Impact Resistance Good Processability High Density High ESCR (Stress Crack Resist.) High Stiffness Low to No Odor Low to No Taste
Uses	Food Containers Packaging Profiles Sheet Thin-walled Containers
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a FDA 21 CFR 177.1520(c) 3.2a
Forms	Pellets
Processing Method	Blow Molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹ (50°C, 1.75 mm, 100% Igepal, Compression Molded, F50)	15.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Compression Molded)	31.0	MPa	ASTM D638

Tensile Elongation ³ (Break, Compression Molded)	710	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (Compression Molded)	1450	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	189	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	80.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	128	°C	ASTM D1525
Injection	Nominal Value	Unit	
Mold Temperature	10.0 to 30.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	140 to 165	°C	
NOTE			
1.	Notched bent strip		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		

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