

HPB-0760 High Density Polyethylene

MELT - .70

DENSITY - .960

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** processing temperature is 140° to 165°C, with mold 10° to 30°C. **HPB-0760** complies with FDA regulation 21CFR 177.520 (c) 3.1(a) + 3.2(a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

Features:

- Low to medium swell
- Easy processability
- Conventional continuous extrusion
- Good ESCR
- Good impact strength
- High stiffness
- Low odor and taste
- Improved barrier

Typical Applications:

- Small to medium size thin-wall bottle for milk, water, juices
- Wide mouth containers for body powders
- Extrusion of sheet and profiles

PROPERTIES	ASTM	UNIT	VALUES
PHYSICAL			
Density	R1505	g/cm ³	0.960
Melt Mass Flow Rate	D1238	g/10 min	.70
MECHANICAL (Blown Molding)			
Tensile Strength (Yield)	D638	psi	4500
Tensile Elongation (Break)	D638	%	2.0
Flexural Modulus - 1% Secant (1.3mm/min)	D790	psi	210K
Ultimate Elongation	D638	%	710
Tensile Impact Strength	D1822	ft.lb/in ²	90
HDT	D648	°C	80
Vicat Softening Point	D1525	°C	128
Low Temperature Brittleness	D746	°C	<(-75)