

## HWB-1048 High Density Polyethylene

**MELT - < 0.10**

**DENSITY - 0.948**

**HWB-1048** is a certified prime grade high molecular weight polyethylene copolymer developed for blow molding and thermoforming of high performance large size industrial parts. Recommended processing temperature is 190 to 210°C. **HWB-1048** complies with FDA regulation 21CFR177.1520(c)3.2(a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

### Features:

- Good processability
- Good melt strength & rigidity
- Excellent combination of low temperature impact strength & chemical resistance

### Typical Applications:

- 55 gallon shipping containers
- Chemical & fuel tanks
- Carrying cases
- Automotive parts
- Tool Boxes
- Truck bedliners
- Playground equipment

PROPERTIES	ASTM	UNIT	VALUES
<b>PHYSICAL</b>			
Density	D1505	g/cm <sup>3</sup>	0.948
Melt Flow Rate (190°C, 2.16kg)	D1238	g/10 min	< 0.10
Melt Flow Rate (190°C, 21.6kg)	D1238	g/10 min	10
Env. Stress Cracking Resistance (Comp. Mold, F50)	D1693B	hr	> 600
Tensile Strength (Yield) Comp. Mold	D638	psi	3600
Tensile Elongation (Break) Comp. Mold	D638	%	700
Flexural Modulus - 1% Secant Comp. Mold	D790	psi	175k
Brittleness Temperature	D746	°F	< -103
Vicat Softening Temperature	D1525	°F	259
HDT Under Load (66 psi Unannealed)	D648	°F	172