



# Formolene® HB4810

## High Density Polyethylene (HDPE) Resin for Blow Molding

Formolene® HB4810 is a high molecular weight hexene copolymer resin designed for blow molding applications. The resin provides an excellent balance of extrudability and low sag melt strength.

Formolene® HB4810 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

### Suggested Applications:

5-55 Gallon Industrial Containers      Medical Containers      Food Packaging Containers

### Additives:

Antiblock - No      Slip - No      Processing Aid - No

### Nominal Values

PROPERTY*	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D792	g/cm <sup>3</sup>	0.948	g/cm <sup>3</sup>	0.948
Melt Index, (190°C/21.6kg)	D1238	g/10 min.	10.0	g/10 min.	10.0
Tensile Strength	D638				
Yield		psi	3300	MPa	22.8
Break		psi	5300	MPa	36.5
Tensile Elongation	D638				
Yield		%	6.0	%	6.0
Break		%	900	%	900
Flexural Modulus	D790B				
2% Secant		psi	124000	MPa	855
ESCR	D1693				
122 F(50°C), 100% Igepal, F50		hr	>1500	hr	>1500
Tensile Impact Strength	D1822				
Type S Bar		ft-lb/in <sup>2</sup>	220	kJ/m <sup>2</sup>	462
Durometer Hardness (Shore D)	D648		57		57
Vicat Softening Temperature	D1525	F	261	°C	127
Heat Deflection Temperature	D648	F	151	°C	66
Brittleness Temperature	D746	F	< -105	°C	< -76.1

Note: All properties were derived from compression molded specimens. Actual properties may vary depending on operating conditions and additive packages. Properties are not intended to be used as specifications.

Published 11/1/2019

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