

**TECHNICAL DATA SHEET (TDS)**

# HDPE BM10-50

## HIGH DENSITY POLYETHYLENE

**OVERVIEW:** Good melt strength, excellent stress crack resistance, good rigidity, excellent impact strength.

Applications: shipping containers (55-gallon), gasoline tanks, large formed parts, agricultural chemical tanks, pallets, cattle feeders.

Complies with the specifications U.S FDA 21 CFR 177.1520

**ADDITIVE:**

Properties	Test Method	Units	Nominal Values
Melt Index (190° C/21.6 Kg)	ASTM D1238	g/10 min	10
Density	ASTM D1505	g/cc	0.949
<b>Properties</b>			
Tensile strength at yield 2 (50 mm) per min.	ASTM D638 TYPE IV	Psi	3600
Elongation 2 (50 mm) per min	ASTM D638 TYPE IV	%	>600
Environmental Stress Crack resistance (ESCR) CONDITION A (100% igepal),F <sub>50</sub>	ASTM D 1693	h	>600
Environmental Stress Crack resistance (ESCR) CONDITION B (10% igepal),F <sub>50</sub>	ASTM D1693	h	>600
Brittleness temperature	ASTM D746	°F	<-131 F
Flexural Modulus	ASTM D 790	Psi	170000

*Physical properties measured on compression molded specimens*

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