



TECHNICAL DATA SHEET (TDS)

HDPE BM02-50 HIGH DENSITY POLYETHYLENE

OVERVIEW:

Outstanding environmental stress crack resistance, high impact strength, good extrusion characteristics.

Applications: blow molding resin

Complies with the specifications U.S. FDA 21 CFR 177.1520.

ADDITIVE:

Properties	Test Method	Units	Nominal Values
Melt Index (190° C/2.16 Kg)	ASTM D1238	g/10 min	0.25
Density g/cm ³	ASTM D792		0.949
Properties			
Tensile strength at yield	ASTM D638	Psi/MPa	3400/23
Tensile strength at break	ASTM D638	Psi/MPa	4500/31
Elongation at Break	ASTM D638	%	900
Elongation at Yield	ASTM D638	%	8
Flexural Modulus, 2% secant	ASTM D 790 B	Psi/MPa	132000/910
Environmental Stress Crack Resistance 122°F(50°),f50, 100% Igepal®	ASTM D 1693	Hrs.	180
Hardness, shore D	ASTM D 2240		57
Brittleness Temperature	ASTM D 746	°F (°C)	<-76(<-24)
Deflection Temperature Under Load @66 psi/0.45 Mpa	ASTM D 640	°F (°C)	144(62)

Physical properties measured on compression molded specimens

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Rev. April 2022