Bayport Polymers LLC

HDPE 50100.2

Technical Data Sheet
High Molecular Weight
High Density Large Part
Blow Molding Resin

Produced in the United States

Description

HDPE 50100.2: Good melt strength, good stress cracking resistance, good rigidity, excellent impact strength, ASTM D4976-89-PE235, FDA compliant(4), UL 94HB/746 certified.

Applications: Industrial parts, pallets, large foam parts, suitable for food packaging.

Characteristics

	Method	Unit	Typical Value
Rheological Properties(1)			
Melt Flow Index	D-1238	g/10 min	
190°C/21.6 kg			9.5
Mechanical Properties(1)(2)			
Tensile Strength @ Yield	D-638, Type IV specimen, 2 in/min	psi	3,800
Elongation at Break	D-638, Type IV specimen, 2 in/min	%	600
Flexural Modulus	D-790	psi	175,500
Notched Izod Impact Strength	D256, A 1/8 in thick specimen	ft-lb/in notch	10.0
ESCR(3)	D1693, Cond B	F_{50}, hrs	
100% Igepal 10% Igepal			>600 120
Thermal Properties(1)(2)			
Melting Point	D-3417	°F	260
Processing Recommendation			
Blow Molding Stock Temperature			370 - 450°F
Extrusion Melt Temperature			380 – 480°F
Other Physical Properties			
Density	D-792	g/cm^3	0.950

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
(2) The data listed was determined on compression molded specimens and may, therefore, vary from specimens taken from molded articles.
(3) Environmental Stress Crack Resistance (ESCR)
(4) Complies with FDA 21 CFR § 177.1520, Para. (c) 2.1 and 2.2

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Polyethylene