



HDPE 50100.2

High Molecular Weight High Density Polyethylene Large Part Blow Molding Resin

BLOW MOLDING

RESIN PROPERTIES ⁽¹⁾

	Method	Unit	Typical Value
Melt Flow Index	D1238	g/10 min	–
190°C/21.6 kg (HLMI)	–	–	10.0
Density	D792	g/cm ³	0.950
Melting Temperature	D3418	°F	260

MECHANICAL PROPERTIES ⁽¹⁾⁽²⁾

	Method	Unit	Typical Value
Tensile Strength at Yield	D638	psi	3,800
Elongation at Break	D638	%	600
1% Flexural Modulus	D790	psi	175,000
Izod Notched Impact (73°F)	D256	ft-lb/in	10
ESCR ⁽³⁾	D1693, B	hr	–
10% Igepal®, F50	–	–	120
100% Igepal®, F50	–	–	> 600

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) The data listed were determined on compression-molded specimens and may, therefore, vary from specimens taken from molded articles.

(3) Environmental Stress Crack Resistance (ESCR).

CHARACTERISTICS:

- Good melt strength
- Excellent stress cracking resistance
- Good rigidity
- Excellent impact strength

APPLICATIONS:

- Industrial parts
- Jerry cans
- Pallets
- Large foamed parts
- Suitable for food packaging
- Toys
- Sheet

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