

# BM1052

HDPE for Blow Molding

BM1052 is a blow molding grade High Density Polyethylene (HDPE) copolymer of high molecular weight distribution. It has excellent processability and it exhibits very high impact strength, stiffness and superior environment stress crack resistance.

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## Typical Applications

BM1052 resin is suggested for blow molding of large containers such as closed-head shipping containers, fuel tanks, and containers for industrial use. It can also be extruded into sheets of exceptionally high impact.

Physical Properties	Unit	Value <sup>(1)</sup>	ASTM Method
Melt index	g/10 min.	0.05	D-1238
HLMI <sup>(2)</sup>	g/10 min.	9	D-1238
Density	g/cm <sup>3</sup>	0.952	D-1505
Vicat softening point	°C	128	D-1525
Brittleness temperature	°C	< -75	D-746
Secant modulus @1%elongation	MPa	1200	D-638
Tensile strength @yield	MPa	30	D-638
Tensile strength @break	MPa	38	D-638
Elongation @break	%	850	D-638
Izod impact	J/m	237	D-256
Hardness (shore D)	-	65	D-2240
ESCR (100%Igepal), F <sub>50</sub>	Hrs.	>1200	D-1693B

*Test specimen is prepared from compression molded sheet made according to ASTM D-1928 Procedure C.*

*(1) Typical values should not be construed as specification limits.*

*(2) High Load Melt Index has been found to be more accurate reference for BM1052.*

## Processing Conditions

Typical molding conditions for BM1052 are:

Barrel temperature °C = 190 - 220 °C