

# MARPOL® HDB 503G

High Density Polyethylene

Marco Polo International, Inc.

## Message:

MARPOL® HDB 503G is a high density polyethylene, gas phase blow molding resin. It features an excellent balance of physical and molding properties. Recommended Applications: Industrial chemical bottles, household chemical bottles, automotive fluid bottles, toys and pharmaceutical bottles.

General Information			
Features	High density		
Uses	Bottle		
	Toys		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.954	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.33	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal)	70.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	27.2	MPa	ASTM D638
Fracture	31.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	950	%	ASTM D638
Flexural Modulus	1140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525

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## Recommended distributors for this material

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