

## TECHNICAL DATA SHEET

## B5500

**B5500** is a HMHDPE Blow Molding Grade, produced by the Mitsui CX Process

**B5500** has excellent processability, high rigidity, excellent mechanical properties and impact resistance

**B5500** is recommended for medium bulk containers (~ 120 liter) for Chemicals, Detergent, Lube Oils

**B5500** is also suitable for the manufacture of blow molded water tanks upto 1000 liters. Adequate UV Stabilizer needs to be added externally for usage in outdoor water tank applications

Property	Test Method	Unit	Value
Melt Flow Index (5 kg, 190°C)	ASTM D1238	g/10 min	0.35
Melt Flow Index (21.6 kg, 190°C)		g/10 min	8.0
Density (23°C)	ASTM D1505	g/cm <sup>3</sup>	0.956
<b>Physical Property</b>			
Tensile Strength at Yield		MPa	27
Elongation at Yield	ASTM D638	%	9
Tensile Strength at Break	(50 mm/min)	MPa	40
Elongation at Break		%	850
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	450
Flexural Modulus	ASTM D790A	MPa	1000
Hardness	ASTM D2240	Shore D	64
ESCR (F <sub>50</sub> , 10% Igepal soln. v/v)	ASTM D1693B	Hr	> 1000
Vicat Softening Point (10 N)	ASTM D1525	°C	129
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	80
DSC Melting Temperature	ASTM D3418	°C	131

### Suggested Processing Conditions

Barrel Temperature	°C	200/210/215/210
Die Temperature	°C	200 – 210
Parison Temperature	°C	190 – 210
Cooling Water for Mold	°C	20 – 25

\* Halene H is the registered trademark of High Density Polyethylene of HPL

Mechanical Properties are on specimens from Compression Molded sheets

The information & data presented herein are typical values and should not be construed as specification. No warranty or guarantee expressed or implied is made regarding performance. The information & data are subject to change without prior intimation based on research & development work undertaken by the company.

Compliance Certificates & MSDS are available on request.  
Visit us at [www.haldia Petrochemicals.com](http://www.haldia Petrochemicals.com)