

## TECHNICAL DATA SHEET

## B5500

**B5500** is a HM-HDPE Blow Molding Grade, produced by the Mitsui CX Process.

This resin is particularly recommended for medium to large bulk containers (~ 120 liter) for Chemicals, Detergent or Lube Oils.

**B5500** combines exceptional processability with high rigidity, excellent mechanical properties and impact resistance.

Property	Test Method	Unit	Value
Melt Flow Index (5 kg, 190 °C)	ASTM D 1238	g/10 min	0.35
Melt Flow Index (21.6 kg, 190 °C)			8.0
Density (23 °C)	ASTM D 1505	g/cm <sup>3</sup>	0.956
<b>Physical Property</b>			
Tensile Strength at Yield		MPa	28
Elongation at Yield	ASTM D 638	%	10
Tensile Strength at Break	(50 mm/min)	MPa	40
Elongation at Break		%	1000
Flexural Modulus	ASTM D 790A	MPa	1000
Notched Izod Impact Strength (23 °C)	ASTM D 256A	J/m	No Break
Hardness	ASTM D 2240	Shore D	62
ESCR (F <sub>50</sub> , 10% Igepal soln. v/v)	ASTM D 1693B	Hr	>1000
Vicat Softening Point (10N)	ASTM D 1525	°C	129
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	°C	80
DSC Melting Temperature	ASTM D 3418	°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

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