

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.

Properties	Test Method	Unit	Value
Melt Flow Index (5 kg, 190°C)	ASTM D 1238	g/10 min	0.40
Density at 23°C	ASTM D 1505	g/cm ³	0.956
Physical Properties			
Tensile Strength at Yield**		MPa	27
Elongation at Yield**		%	12
Tensile Strength at Break**	ASTM D 638	MPa	38
Elongation at Break**		%	1000
Flexural Modulus	ASTM D 790	MPa	1150
Izod Impact Strength (23°C)	ASTM D 256	J/m	No Break
Hardness	ASTM D 2240	Shore D	62
E.S.C.R.	ASTM D 1693	Hr	> 1000
Vicat Softening Point (10N)	ASTM D 1525	°C	129
Heat Deflection Temperature (0.45 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

** Tensile Properties are on Compression Molded Type IV Specimens as per ASTM D 638

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