

TECHNICAL DATA SHEET

B5500

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

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

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

B5500 is also suitable for the manufacture of blow molded water tanks upto 1000 liters.

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 ³	0.956
Physical Property			
Tensile Strength at Yield		MPa	28
Elongation at Yield	ASTM D638	%	7
Tensile Strength at Break	(50 mm/min)	MPa	40
Elongation at Break		%	> 650
Notched Izod Impact Strength (23 °C)	ASTM D256A	J/m	550
Flexural Modulus	ASTM D790A	MPa	1000
Hardness	ASTM D2240	Shore D	64
ESCR (F ₅₀ , 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

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