

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 ³	0.956
Physical Property			
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 ₅₀ , 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