

**Product Texts**

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.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>0.35</b>	g/10min	ASTM D 1238
Temperature	<b>190</b>	°C	-
Load	<b>5</b>	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>27</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>40</b>	MPa	ASTM D 638
Elongation at Yield	<b>9</b>	%	ASTM D 638
Elongation at Break	<b>850</b>	%	ASTM D 638
Flexural Modulus	<b>1000</b>	MPa	ASTM D 790
Shore D Hardness	<b>64</b>	-	ASTM D 2240
Izod Impact notched, 1/8 in	<b>500</b>	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>63</b>	°C	ASTM D 648
Melting Temperature	<b>133</b>	°C	ASTM D 3418
Vicat Temperature	<b>127</b>	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	<b>952</b>	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	<b>190 - 210</b>	°C	-
Zone 1	<b>200</b>	°C	-
Zone 2	<b>210</b>	°C	-
Zone 3	<b>215</b>	°C	-
Zone 4	<b>210</b>	°C	-
Nozzle temperature	<b>200 - 210</b>	°C	-

**Characteristics**

**Processing**

Blow Molding

**Chemical Resistance**

General Chemical Resistance, Oil Resistance

**Special Characteristics**

High impact or impact modified

**Regional Availability**

Asia Pacific