



# 5502BN

Polyethylene Product

## Product Description

*5502BN is a polyethylene product suitable for blow molding. This material is polymerized with a chromium catalyst and it is designed for light-weight blow molded containers that require excellent stiffness and processability. It is used for household and industrial container and food packaging.*

## Product Characteristic

<b>Test Method Used</b>	ASTM	
<b>Features</b>	Light Weight	Good Stiffness
	Good Processability	
<b>Typical Customer Applications</b>	Industrial Container	Packaging

## Typical Properties

Physical	Test Method	Unit	Value
Melt Flow Rate (2.16 kg @190°C)	ASTM D1238	g/10min	0.35
Density	ASTM D1505	g/cm <sup>3</sup>	0.955
Mechanical	Test Method	Unit	Value
Tensile strength @ Yield	ASTM D638	MPa	27
Tensile Elongation @ 23°C	ASTM D638	%	600
ESCR (Condition B, 100% Igepal, F50)	ASTM D1693	hr	30
Brittleness Temperature	ASTM D746	°C	<-75
Thermal	Test Method	Unit	Value
Vicat	ASTM D1525	°C	127

**Notes:** Results may vary depending on environmental conditions and /or devices.

## **Processing Recommendation**

The actual conditions depends on the type of equipment used.

## **Blow Molding**

*5502BN* is easy to process with standard Blow molding machines. Following molding parameters should be used as guidelines:

Blow Molding Stock Temperature	194 – 216 °C
Extrusion Melt Temperature	194 – 216 °C
Thermoforming Surface Temperature	171 – 182 °C

## **Storage**

This material should be stored in dry conditions, protected from sunlight and at temperatures below 50 °C.

## **Contact**

### **GS Caltex,**

GS Tower, 508, Nonhyeon-ro, Gangnam-gu,

Seoul 06141, Rep of Korea

tel.: 82 042 866 1638