

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

Test Method Used	ASTM	
Features	Light Weight	Good Stiffness
	Good Processability	
Typical Customer Applications	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 ³	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