



Caltex PE 5502BN

GS Caltex - High Density Polyethylene

General Information

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.

Features:

- Light Weight
- Good Stiffness
- Good Processability

Typical Customer Applications:

- Industrial Container
- Pacakaging

General

Features	• Excellent Processability	• High Stiffness
Uses	• Industrial Containers	• Packaging
Processing Method	• Blow Molding	

Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.955 g/cm ³	0.955 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35 g/10 min	0.35 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693B
100% Igepal, F50	30.0 hr	30.0 hr	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength (Yield)	3920 psi	27.0 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	600 %	600 %	ASTM D638
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	< -103 °F	< -75.0 °C	ASTM D746
Vicat Softening Temperature	261 °F	127 °C	ASTM D1525

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	381 to 421 °F	194 to 216 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	381 to 421 °F	194 to 216 °C

Extrusion Notes

Thermoforming Surface Temperature: 171 – 182 °C