



TECHNICAL DATA SHEET

Product Name

SCG HDPE

Product Type

High Density Polyethylene for Extrusion Blow molding

Product Grade

SMX551BU

Product Description

SMX551BU is a high molecular weight of high density polyethylene resin suitable for Intermediate Bulk Containers. This grade has high melt strength for good processing performance, very low odor and fuming, excellent chemical resistance with superior stiffness.

Typical Applications

- Bulk liquid containers
- Hazardous chemicals containers

Product Characteristics

- High melt strength
- Excellent impact strength at low temperature
- Excellent combination of stiffness and impact strength
- Excellent chemicals resistance
- UV stabilization

International Compliance

- U.S FDA 21 CFR 177.1520
- Regulation (EU) No.10/2011
- Packaging and Packaging waste Directive 94/62/EC/CONEG

Physical Properties

Property	Test Method	Typical Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190°C, 2.16 kg	0.05	g/10 min
	ASTM D 1238 @ 190°C, 21.6 kg	5.80	g/10 min
Density	ASTM D 1505 @ 100°C annealing	0.946	g/cm ³
Vicat Softening Point	ASTM D 1525	124	°C
Deflection Temperature at 0.46 MPa	ASTM D 648	59	°C
Tensile Strength at Yield	ASTM D 638	212	kg/cm ²
Tensile Strength at Break	ASTM D 638	382	kg/cm ²
Elongation at Break	ASTM D 638	882	%
Flexural Modulus	ASTM D 790	7200	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23°C	530	J/m
ESCR	ASTM D 1693 @ 50°C (Condition B, F50,10% Igepal)	>8000	hour
Hardness Shore D	ASTM D 2240	65	-

Note: The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.



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Disclaimer

- The Applications specified herein is for reference only.
- It is customer's responsibilities to inspect and test the product for suitability of the customer's own use and purpose. The customer is responsible for appropriate, safe, legal use, processing and handling of the product.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. We however do not assume any liability whatsoever for the accuracy and completeness of the information contained herein.
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