



TECHNICAL DATA SHEET

Product Name

SCG HDPE

Product Type

High strength polyethylene for Extrusion Blow molding

Product Grade

SMX551BU

Product Description

SMX551BU is a high molecular weight of high strength 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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