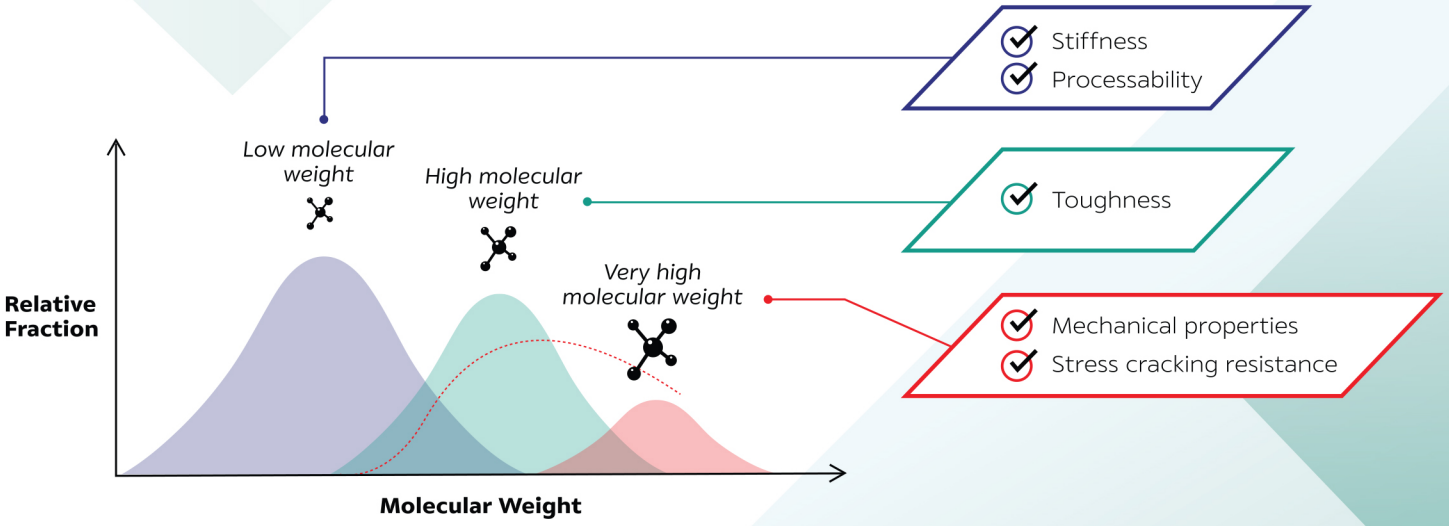
High Performance HDPE Resins by SMX™ Technology

SCGC's breakthrough and patented Multi-Modal SMX™ Technology helps strengthen HDPE resins through perfect balance between high strength and stiffness properties to enhance end products durability, resulted in ability to reduce wall thickness while maintain functional properties. These properties can not only save material in product but also give lighter weight product that release less CO_2.

With our superior technology, SCGC innovates wide range of product including blow molding and film application.



S111F High Impact Film for Industrial Use

SCGC GREEN POLYMER™

25% better dart drop impact*

25% better puncture resistance*

Up to **30%** film thickness reduction*

19% GHG Reduction**

Recommended Applications
- Heavy duty industrial bag
- Chilled chicken & meat bag
- Industrial liner
- Construction film

Product Characteristics
- Up to 20% film thickness reduction
- Excellent impact strength and toughness
- Ability to maintain seal strength as HDPE & LLDPE formulation

Remarks:
*Compared to conventional grade
**Green House Gas reduction calculation guideline by Thailand Green House Gas Management Organization and based on film thickness reduction 20%

S199F HDPE Film for Consumer Use

SCGC GREEN POLYMER™

20% better dart drop impact*

Up to **20%** higher impact strength*

>30% blended with recycled content

Excellent processability

>16% GHG Reduction**

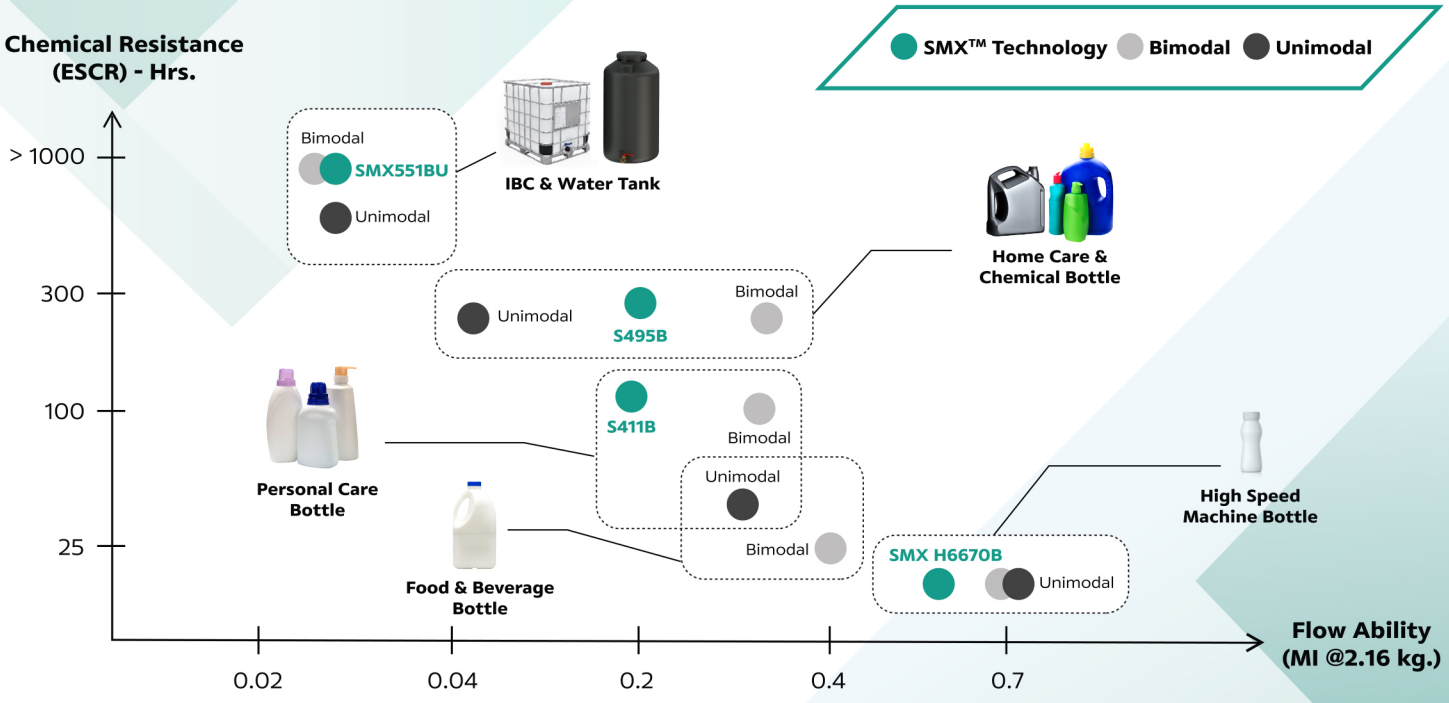
Recommended Applications
- Shopping bag
- Roll bag
- Trash bag
- PE-gloves
- Thin film with thickness < 20 microns

Product Characteristics
- Excellent dart impact strength
- Good tensile strength and stiffness
- Good bubble stability
- Low gel content
- Good moisture barrier
- Food contact applicable
- Able to be blended with >30% recycled content while maintaining mechanical properties

Remarks:
* Compared to conventional grade, both produced at SCGC lab with film thickness 12 microns and BUR 5:1
** Green House Gas reduction calculation guideline by Thailand Green Gas Management Organization and based on 30% recycled content blend.

HDPE by SMX™ Technology

compared to unimodal and bimodal HDPE resins



SMX551BU: High Strength HDPE for IBC

SCGC GREEN POLYMER™

Superior chemicals resistance with 65% higher ESCR*

6% weight reduction*

12% GHG Reduction**

Recommended Applications
- Bulk Liquid Container (IBC)
- Hazardous chemical container
- Water tank up to 2,000 Liters

Product Characteristics
- High melt strength
- Excellent impact strength at low temperature
- Excellent combination of stiffness and impact strength
- Excellent chemical resistance
- Contained UV stabilizer

S411B: HDPE for lightweight container

8-20% lightweight*

6-13% Cost reduction*

5-12% GHG Reduction**

Recommended Application
- Personal care bottle
- Cosmetic bottle
- Homecare bottle

Product Characteristics
- Excellent combination of stiffness and chemical resistance
- Easy processability
- Recyclability

S495B: High Strength HDPE for Chemical container

10-15% higher top load*, thus less defect from production

Excellent chemical resistance

Recommended Application
- Brake fluid bottle
- Chemical bottle
- Homecare bottle
- Lubricant bottle

Product Characteristics
- Excellent ESCR
- Excellent combination of stiffness and chemical resistance
- Good processability
- Recyclability

H6670B: High productivity for high speed machine

MI 0.7 High flow & productivity

5% Higher stiffness*

Recommended Application
- Food & beverage bottle
- Bottle produced by high speed machine

Product Characteristics
- Excellent stiffness
- Good processability
- High productivity
- Odorless
- Recyclability

Remarks:
*Compared to conventional grade
**Green House Gas reduction calculation guideline by Thailand Green House Gas Management Organization

For more information please contact
SCG Chemicals PLC.
1 Siam Cement Road, Bangsue, Bangkok 10800, Thailand
Email: general_plastics@scg.com
Website: www.scgchemical.com

Scan to Email Us

Scan to Visit Our Website