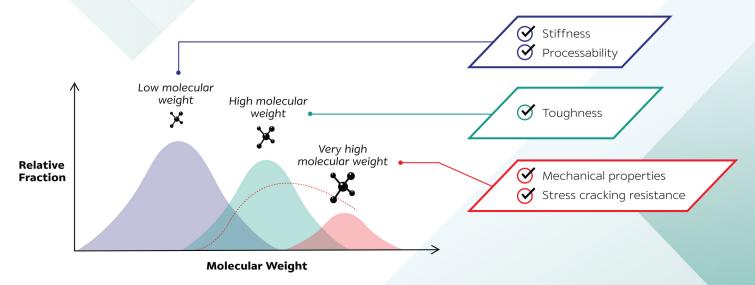
# **High Performance HDPE Resins by SMX<sup>™</sup> Technology**



SCGC's breakthrough and patented Multi-Modal SMX<sup>™</sup> 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<sub>2</sub>.

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



# **S111F** High Impact Film for Industrial Use





25% better dart drop impact\*



25% better puncture resistance\*



Up to 30% film thickness 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





20% better dart drop impact\*



Up to 20% higher impact strength\*



>30% blended with recycled content



Excellent processability

#### **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



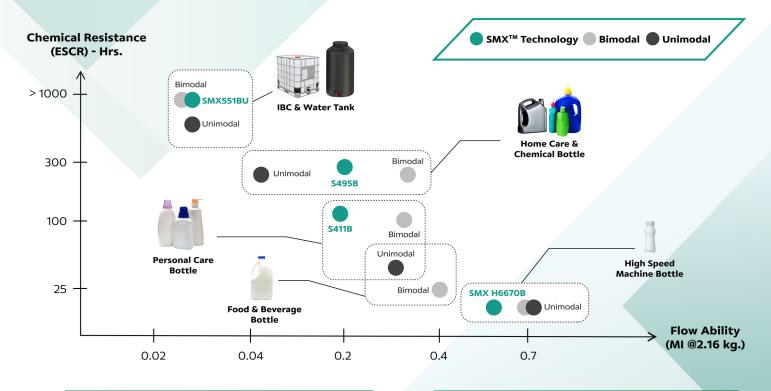
#### Remarks

- \* 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<sup>™</sup> Technology**



compared to unimodal and bimodal HDPE resins



#### SMX551BU: High Strength HDPE for IBC







weight 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





6-13% Cost



#### **Recommended Application**

- · Personal care bottle
- · Homecare bottle

#### Product Characteristics

- · Excellent combination of stiffness
- · 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

## **Recommended Application**

- Food & beverage bottle
- · Bottle produced by high speed machine

Website: www.scgchemical.com



5% Higher stiffness\*

#### Product Characteristics

- Excellent stiffness
- Good processability
- High productivity
- Odorless

#### Recyclability

\*Compared to conventional grade

\*\*Green House Gas reduction calculation guideline by Thailand Green House Gas Management Organization

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