PIPE COMPOUND
Chemicals Business, SCG is one of the largest integrated petrochemical companies in Thailand and a key industry leader in Asia. We offer a full array of petrochemical products ranging from upstream productions of olefins to downstream productions of three main plastics resins: polyethylene (PE), polypropylene (PP) and polyvinyl chloride (PVC). Widely recognized for superior product quality as well as for world-class operation efficiency, we have joint ventures with a number of the world’s leading chemical companies, including The Dow Chemical, Mitsui Chemicals and Mitsubishi Chemical Corporation.

We are committed to developing new high value-added products (HVA) and service solutions that inspire our customers and partners.

PASSION FOR BETTER

OUR PRODUCTION CAPACITY (AS OF 2019)

TOTAL CAPACITY : 2,878 KTA
(PE / PP / PVC)

POLYOLEFIN
Total : 1,912 (KTA)

HDPE 920 KTA
LDPE 152 KTA
LLDPE 120 KTA
PP 720 KTA

PVC
Total : 966 (KTA)

PVC Resin 850 KTA
PVC Compound 80 KTA
PVC Paste Resin 36 KTA
SCG™ HDPE Pipe Compound

SCG™ HDPE Pipe Compound is specially designed for both high pressure and non-pressure pipes. The compound is suitable for a variety of pipe applications such as water pipes, gas pipes, mining pipes, cable conduits, and sewerage & drainage systems. The advanced bimodal process helps the polyethylene resin achieve the desirable molecular weight and weight distribution, which result in excellent properties.

High Performance with World Class Standard Approval

Our philosophy is to produce high quality products without violating the environment or morality and to provide the best service to customers. As evidence, SCG™ HDPE Pipe Compound is qualified by world class accredited laboratory and conformed the requirements.

Example of Certifications

Lorem ipsum
## SCG™ HDPE PIPE COMPOUND

### Key Characteristic

- **H112PC**
  - High performance PE112 with the right balance between high slow crack growth and rapid crack propagation resistance.
  - Superior abrasion resistance and recommended for production of very thick wall and large diameter pipe.

- **H1000PC**
  - Worldwide guaranteed PE100 Black Compound, safe for drinking water and good wall thickness control in large diameter pipes.

- **H1000PBL**
  - Blue RAL 5005 PE100 Compound for pressure pipes with outstanding UV resistance.
  - High thermal stability for long-term use.

### Properties

<table>
<thead>
<tr>
<th>Grade</th>
<th>H112PC</th>
<th>H1000PC</th>
<th>H1000PBL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MFR @ 5 kg. (g/10 min)</strong></td>
<td>0.20</td>
<td>0.25</td>
<td>0.25</td>
</tr>
<tr>
<td><strong>Density Compound (g/cm³)</strong></td>
<td>0.960</td>
<td>0.960</td>
<td>0.960</td>
</tr>
<tr>
<td><strong>Tensile Strength at Yield (Mpa)</strong></td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td><strong>Slow Crack Growth (SCG) hrs.</strong></td>
<td>&gt;500</td>
<td>&gt;500</td>
<td>&gt;500</td>
</tr>
<tr>
<td><strong>Rapid Crack Propagation (RCP) Critical Pressure (bar)</strong></td>
<td>&gt;10</td>
<td>&gt;10</td>
<td>&gt;10</td>
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</table>

### Standard Approvals

<table>
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<tr>
<th>H112PC</th>
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<tbody>
<tr>
<td>ISO 4427-1</td>
<td>ISO 4427-1</td>
<td>ISO 4427-1</td>
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<tr>
<td>EN 12201-1</td>
<td>EN 12201-1</td>
<td>EN 1555-1</td>
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<tr>
<td>ISO 4437-1</td>
<td>ISO 4437-1</td>
<td>AS/NZS 4131</td>
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<tr>
<td>EN1555-1</td>
<td>EN1555-1</td>
<td>ASTM D3350</td>
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<tr>
<td>AS/NZS 4131</td>
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</table>

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

*Tested on 110 mm pipe
**H1000PWI**
- White PE100 compound with excellent weather resistance and low heat absorption for above ground applications.

**H1000PCI**
- High flow for injection molding PE100 fitting.

**H5211PC**
- PE 80 Compound with high thermal stability for good processing.

**D682PC**
- Black linear low density polyethylene (LLDPE) compound with good processability and flexibility, ensuring ease of coiling and uncoiling for pipes.

<table>
<thead>
<tr>
<th></th>
<th>H1000PWI</th>
<th>H1000PCI</th>
<th>H5211PC</th>
<th>D682PC</th>
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<tbody>
<tr>
<td>0.25</td>
<td>0.40</td>
<td>0.40</td>
<td>0.24 (2.16 kg)</td>
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<tr>
<td>0.972</td>
<td>0.960</td>
<td>0.960</td>
<td>0.944</td>
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<tr>
<td>22</td>
<td>24</td>
<td>24</td>
<td>17</td>
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<tr>
<td>&gt;500</td>
<td>&gt;500</td>
<td>&gt;500</td>
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<tr>
<td>AS/NZS 4130</td>
<td>ISO 4427-1</td>
<td>ISO 4427-1 EN 12201-1 ISO 4437-1 EN1555-1 AS/NZS 4131</td>
<td>Internal SCG Test Report</td>
<td></td>
</tr>
</tbody>
</table>
Water Pipe System
Demand for water distribution system is soaring in many countries. SCG™ HDPE Compound is high quality material with a good low sagging property providing good wall thickness control in large thick-wall pipe. Safe for drinking water transportation, the material meets worldwide standards and can contribute to the improvement of the quality and durability of water distribution systems.

Gas Pipe System
Quality, reliability, and safety are key concerns in gas pipes. SCG™ HDPE Compound shows high performance in Rapid Crack Propagation (RCP), Slow Crack Growth (SCG), and gas constituent resistance, which are necessary for reliable gas pipe system.

Mining Pipe System
Nowadays, polyethylene pipes are used beyond performance boundaries including steel pipe replacement in industrial and mining applications. In addition to their excellent chemical resistance, the key advantages for polyethylene pipe are higher pressure-temperature resistance, longer lifetime, and ability to convey substances in various states such as gas, gas-solid and slurry forms.

SCG™ HDPE Compound has been developed to suit a wide range of applications, such as in the improvement of abrasion resistance to deter thickness loss in pipes used for sediment slurry transportation. SCG™ HDPE Compound has also been designed for large thick-wall pipe to accommodate the growth of large-scale industries.
Sheet / Lining / Chemicals Tank
High strength and processability for large and thick sheet extrusion

<table>
<thead>
<tr>
<th>Grade</th>
<th>Standard Approval</th>
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<tbody>
<tr>
<td>H1000PC</td>
<td>DIBT Approval</td>
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District Heating Pipe
High protective performance according to EN 253

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<tbody>
<tr>
<td>H1000PC</td>
<td>EN 253</td>
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<tr>
<td>H5211PC</td>
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</table>

Structural Large Drainage Pipe / Spiral Welding Pipe
Good stiffness suitable for gravity pipe

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<th>Grade</th>
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<tbody>
<tr>
<td>H1000PC</td>
<td>PAS 1065</td>
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</table>

Above-ground Water Pipe
White compound with excellent weathering resistance and heat reduction conductivity to water inside.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Standard Approval</th>
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</thead>
<tbody>
<tr>
<td>H1000PWI</td>
<td>AS/NZS 4130</td>
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</table>

Irrigation Pipe (SCG™ LLDPE)
Good processability and flexibility for easy coiling and uncoiling of pipes.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>D682PC</td>
<td>Internal SCG test report</td>
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</table>
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Disclaimer:
- The applications specified for reference only.
- It is customer’s responsibilities to inspect and test the product for suitability of the customer’s own use and purpose.
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