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**

Lorem ipsum

**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

Rev. Jun 2019 valid until next revision
SCG™ PP: HOME APPLIANCES

SCG™ PP is a polypropylene resin produced with technology of Mitsui Chemicals, Inc. of Japan, well recognized and licensed to many petrochemical companies worldwide since 1954.

With years of experience in the home appliances market, SCG understands the challenges of the home appliances industry and constant shifts in consumer behavior and lifestyle. SCG has been working closely with home appliances customers along the value chain to better anticipate future needs and industry trends in order to develop innovative products and services that will accommodate them.

SCG strives to deliver material solutions for home appliances business that ensure cost effectiveness, end-use performance enhancement, and product sustainability.
### SCG™ PP:
PP BLOCK COPOLYMER RESIN

<table>
<thead>
<tr>
<th>GRADE</th>
<th>P440J</th>
<th>P441JU</th>
<th>P640J</th>
<th>P642J</th>
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<tbody>
<tr>
<td><strong>Melt Flow Rate</strong>&lt;br&gt;[g/10min]&lt;br&gt;[ASTM D1238 at 230°C, 2.16 kg]</td>
<td>5</td>
<td>5</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td><strong>Flexural Modulus</strong>&lt;br&gt;[(kg/cm²)]&lt;br&gt;[ASTM D790]</td>
<td>12,500</td>
<td>12,500</td>
<td>12,000</td>
<td>14,000</td>
</tr>
<tr>
<td><strong>Notched Izod Impact at 23°C</strong>&lt;br&gt;[(J/m)]&lt;br&gt;[ASTM D256]</td>
<td>118</td>
<td>118</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td><strong>Notched Izod Impact at 0°C</strong>&lt;br&gt;[(J/m)]&lt;br&gt;[ASTM D256]</td>
<td>65</td>
<td>65</td>
<td>59</td>
<td>59</td>
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<tr>
<td><strong>Notched Izod Impact at -20°C</strong>&lt;br&gt;[(J/m)]&lt;br&gt;[ASTM D256]</td>
<td>49</td>
<td>49</td>
<td>39</td>
<td>39</td>
</tr>
<tr>
<td><strong>Heat Deflection Temperature</strong>&lt;br&gt;[°C]&lt;br&gt;[ASTM D648 at 4.6 kg/cm³]</td>
<td>100</td>
<td>100</td>
<td>105</td>
<td>110</td>
</tr>
<tr>
<td><strong>Regulation Standard</strong>&lt;br&gt;RoHS, REACH, UL HB</td>
<td>RoHS, REACH, UL HB</td>
<td>RoHS, REACH, UL HB</td>
<td>RoHS, REACH, UL HB</td>
<td>RoHS, REACH, UL HB</td>
</tr>
<tr>
<td><strong>Key Characteristic</strong>&lt;br&gt;- General purpose&lt;br&gt;- UV and anti-static agents&lt;br&gt;- General purpose&lt;br&gt;- UV and anti-static agents</td>
<td>- Washing machine&lt;br&gt;- Refrigerator / freezer</td>
<td>- Washing machine&lt;br&gt;- Refrigerator / freezer</td>
<td>- Washing machine&lt;br&gt;- Refrigerator / freezer</td>
<td>- Washing machine&lt;br&gt;- Refrigerator / freezer</td>
</tr>
</tbody>
</table>
SCG™ PP offers PP Block Copolymer resin with excellent stiffness-impact balance, designed for parts of washing machines, refrigerators, dish washers, vacuum cleaners, and other small appliances.

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>27</td>
<td>30</td>
<td>30</td>
<td>43</td>
<td>40</td>
<td>40</td>
<td>60</td>
</tr>
<tr>
<td>12,500</td>
<td>14,500</td>
<td>16,000</td>
<td>12,500</td>
<td>12,000</td>
<td>14,500</td>
<td>16,000</td>
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<tr>
<td>78</td>
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<td>78</td>
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<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>29</td>
</tr>
<tr>
<td>110</td>
<td>110</td>
<td>125</td>
<td>110</td>
<td>110</td>
<td>120</td>
<td>125</td>
</tr>
</tbody>
</table>

- **RoHS, REACH, UL HB**
- **RoHS, REACH, UL HB, UL 2157**
- **RoHS, REACH**
- **RoHS, REACH, UL HB**
- **RoHS, REACH, UL HB**
- **RoHS, REACH**

- **General purpose**
- **High flexural modulus**
- **Fast cycle time**
- **Excellent flexural modulus**
- **Fast cycle time**
- **High melt flow**
- **UV and anti-static agents**
- **High flexural modulus**
- **Fast cycle time**
- **Excellent flexural modulus**
- **Fast cycle time**

- **Washing machine**
  - Refrigerator / freezer
  - Dish washer
  - Air-conditioned
- **Washing machine**
  - Refrigerator / freezer
  - Dish washer
  - Air-conditioned
- **Washing machine**
  - Refrigerator / freezer
  - Dish washer
  - Air-conditioned
- **Washing machine**
  - Refrigerator / freezer
  - Dish washer
  - Air-conditioned
- **Washing machine**
  - Refrigerator / freezer
  - Dish washer
  - Air-conditioned
- **Washing machine**
  - Refrigerator / freezer
  - Dish washer
  - Air-conditioned
SCG™ PP:
PP HOMOPOLYMER RESIN

SCG™ PP offers PP Homopolymer resin with excellent stiffness, designed for home appliances parts and base compound resins.

<table>
<thead>
<tr>
<th>GRADE</th>
<th>P700J</th>
<th>P701J</th>
<th>P902J</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Flow Rate [g/10min] ASTM D1238 at 230°C, 2.16 kg</td>
<td>12</td>
<td>12</td>
<td>60</td>
</tr>
<tr>
<td>Flexural Modulus [kg/cm²] ASTM D790</td>
<td>14,500</td>
<td>15,500</td>
<td>16,500</td>
</tr>
<tr>
<td>Notched Izod Impact at 23°C [J/m] ASTM D256</td>
<td>37</td>
<td>34</td>
<td>37</td>
</tr>
<tr>
<td>Notched Izod Impact at 0°C [J/m] ASTM D256</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Heat Deflection Temperature [°C] ASTM D648 at 4.6 kg/cm³</td>
<td>110</td>
<td>110</td>
<td>125</td>
</tr>
<tr>
<td>Regulation Standard</td>
<td>RoHS, REACH, UL HB</td>
<td>RoHS, REACH</td>
<td>RoHS, REACH</td>
</tr>
<tr>
<td>Key Characteristic</td>
<td>- Good rigidity</td>
<td>- High rigidity</td>
<td>- Excellent flowability - Excellent flexural modulus</td>
</tr>
<tr>
<td>Recommended Application</td>
<td>- Washing machine - Small appliances - Base resin for compound</td>
<td>- Washing machine - Small appliances - Base resin for compound</td>
<td>- Washing machine - Small appliances - Base resin for compound</td>
</tr>
</tbody>
</table>
SCG™ PP:
PP RANDOM COPOLYMER RESIN

SCG™ PP offers PP Random Copolymer resin with a high degree of transparency.

<table>
<thead>
<tr>
<th>GRADE</th>
<th>P750J</th>
<th>P851JO</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Melt Flow Rate</strong> [g/10min] ASTM D1238 at 230°C, 2.16 kg</td>
<td>12</td>
<td>20</td>
</tr>
<tr>
<td><strong>Flexural Modulus</strong> [kg/cm³] ASTM D790</td>
<td>12,000</td>
<td>12,500</td>
</tr>
<tr>
<td><strong>Notched Izod Impact at 23°C</strong> [J/m] ASTM D256</td>
<td>65</td>
<td>60</td>
</tr>
<tr>
<td><strong>Notched Izod Impact at 0°C</strong> [J/m] ASTM D256</td>
<td>39</td>
<td>39</td>
</tr>
<tr>
<td><strong>Heat Deflection Temperature</strong> [°C] ASTM D648 at 4.6 kg/cm³</td>
<td>90</td>
<td>100</td>
</tr>
<tr>
<td><strong>Regulation Standard</strong></td>
<td>RoHS, REACH, UL HB</td>
<td>RoHS, REACH, UL HB</td>
</tr>
<tr>
<td><strong>Key Characteristic</strong></td>
<td>- Transparency</td>
<td>- High clarity</td>
</tr>
<tr>
<td><strong>Recommended Application</strong></td>
<td>- Washing machine - Refrigerator / freezer</td>
<td>- Washing machine - Refrigerator / freezer</td>
</tr>
</tbody>
</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.
- 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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