BATTERY
CASE AND COVER
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

Rev. Jun 2019 valid until next revision
SCG™ PP: BATTERY CASES AND COVERS

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

Our SCG™ PP Impact Copolymer resin provides excellent impact resistance with balanced stiffness. Also, it complies with the JIS and DIN standards. SCG™ PP Impact Copolymer resins are perfectly suitable for high-quality battery cases and covers.

With our experience and continuous improvement, we have been trusted by the world’s leading battery producers for more than 20 years.
SCG™ PP:
IMPACT COPOLYMER RESIN
SCG™ PP Block Copolymer resins, P722JO and P642J are designed for automotive battery case and cover. These grades provide excellent UV and thermal resistance. Moreover, SCG™ PP P722JO shows brighter whiteness and maintain natural color longer than general PP.
# SCG™ PP:
## IMPACT COPOLYMER RESIN

### GRADE

<table>
<thead>
<tr>
<th>Property</th>
<th>P642J</th>
<th>P722JO</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Melt Flow Rate at 230°C, 2.16 kg [g/10min]</strong></td>
<td>10.0</td>
<td>10.0</td>
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<tr>
<td>ASTM D1238</td>
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<tr>
<td><strong>Flexural Modulus [kg/cm²]</strong></td>
<td>14,000</td>
<td>13,000</td>
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<tr>
<td>ASTM D790</td>
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<tr>
<td><strong>Notched Izod Impact at 23°C [J/m]</strong></td>
<td>98</td>
<td>98</td>
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<tr>
<td>ASTM D256</td>
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<td></td>
</tr>
<tr>
<td><strong>Notched Izod Impact at 0°C [J/m]</strong></td>
<td>59</td>
<td>59</td>
</tr>
<tr>
<td>ASTM D256</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Notched Izod Impact at -20°C [J/m]</strong></td>
<td>39</td>
<td>49</td>
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<tr>
<td>ASTM D256</td>
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<tr>
<td><strong>Heat Deflection Temperature at 4.6 kg/cm² [°C]</strong></td>
<td>110</td>
<td>120</td>
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<tr>
<td>ASTM D648</td>
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</tbody>
</table>

### Key Characteristic

- High impact strength and stiffness
- Good processability
- Good dimensional stability
- Good UV resistance
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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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