Polypropylene
Aramco PP CP160NK

Product Description
Aramco PP CP160NK block copolymer polypropylene resin and is typically used for industrial injection molding application. Molded parts made from this resin typically exhibits good impact, high stiffness and good heat stability. This product is formulated with nucleating agent.

Typical Applications
Tub of washing machine, electrical appliances. This product is not intended for use in medical and pharmaceutical applications.

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>Unit</th>
<th>Test Method</th>
<th>Value[1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt flow index (230°C/2.16kg)</td>
<td>g/10min</td>
<td>ASTM D1238</td>
<td>16</td>
</tr>
<tr>
<td>Density</td>
<td>g/cm³</td>
<td>ASTM D792 Method A</td>
<td>0.9</td>
</tr>
</tbody>
</table>

Mechanical Properties[2]
- Tensile Strength at Yield          MPa       ASTM D638          28
- Tensile Strength at Break          MPa       ASTM D638          20
- Tensile Elongation at Break        %         ASTM D638          220
- Flexural Modulus                   MPa       ASTM D790           1315
- Izod Impact, Notched 23 °C         kJ/m²     ASTM D256           8
- Izod Impact, Notched -20 °C        kJ/m²     ASTM D256           4.2
- Hardness Rockwell                   R scale   ASTM D785           92

Thermal Properties[4]
- Heat Deflection Temperature 0.45 MPa °C ASTM D648 124

Other Properties
- Shrinkage MD/TD                     %         TPC method          1.6 / 1.7
- Flammability                         UL94      HB

(1) Typical values only, not to be construed as specification limits
(2) Test specimen preparation method: Pursuant to ASTM D4101

Processing conditions: Recommended melt temperature: 190 – 230 °C

Storage and handling: Aramco PP CP160NK should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperature below 50 °C.