Supreme SC 202 EC
General Purpose Polystyrene
Technical Datasheet

CHARACTERISTIC
- Good melt strength
- High heat grade
- Excellent processability

PROCESSING
- Extrusion
- Molding

APPLICATIONS
- Ideal for clear product application.
- Suitable for profile extrusion, clear, & embossed sheets.
- Disposable pipette, tablet packaging bottles, ampuletray, caps & closures.

Material status: Commercially active

<table>
<thead>
<tr>
<th>Property</th>
<th>ASTM Method</th>
<th>Test Condition</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rheological</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melt Flow Index</td>
<td>D1238</td>
<td>200°C/5Kg</td>
<td>3</td>
<td>gm/10 min</td>
</tr>
<tr>
<td>Thermal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicat Softening Point</td>
<td>D1525</td>
<td>120°C/hr, 1 Kg</td>
<td>104</td>
<td>°C</td>
</tr>
<tr>
<td>Heat Deflection temperature</td>
<td>D648</td>
<td>1.86 Mpa</td>
<td>86</td>
<td>°C</td>
</tr>
<tr>
<td>Mechanical</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Tensile Strength</td>
<td>D638</td>
<td>50 mm/min</td>
<td>51</td>
<td>Mpa</td>
</tr>
<tr>
<td>Elongation</td>
<td>D638</td>
<td>50 mm/min</td>
<td>2</td>
<td>%</td>
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<tr>
<td>Flexural Strength</td>
<td>D790</td>
<td>3.2 mm</td>
<td>90</td>
<td>Mpa</td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>D790</td>
<td>3.2 mm</td>
<td>3400</td>
<td>Mpa</td>
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<tr>
<td>Izod Impact (Notched)</td>
<td>D256</td>
<td>3.2 mm</td>
<td>20</td>
<td>J/m</td>
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<tr>
<td>Flammability</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glow wire temperature</td>
<td>IEC 695-2-1</td>
<td>-</td>
<td>-</td>
<td>°C</td>
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<tr>
<td>Flammability</td>
<td>UL 94</td>
<td>@1.6mm</td>
<td>HB</td>
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<tr>
<td>General</td>
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</tr>
<tr>
<td>Specific Gravity</td>
<td>D792</td>
<td>-</td>
<td>1.04</td>
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<tr>
<td>Processing Conditions</td>
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<tr>
<td>Maximum Melt Temperature</td>
<td>-</td>
<td>-</td>
<td>180-260</td>
<td>°C</td>
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<tr>
<td>Pre-drying Temperature</td>
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<td>2 hr</td>
<td>50-80</td>
<td>°C</td>
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<td>Mold Temperature</td>
<td>-</td>
<td>-</td>
<td>40-60</td>
<td>°C</td>
</tr>
</tbody>
</table>

Data presented in this catalogue are typical values of properties and are intended to serve as guide only. SPL reserves the right to review the content of this catalogue & revise.

Contact Details: Solitaire corporate park, bldg no. 5/11, Chakala, Andheri (E), Mumbai – 400 093, Tel: +91-22-6709 1900, Fax: +91-22-6709 1924/25, Customer Services: css@spl.co.in, Export marketing: export@spl.co.in, Domestic marketing: marketing@spl.co.in, Website: www.supremepetrochem.com

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Test Method & Standard Properties
Data presented in this catalogue are typical values of properties for natural materials and intended to serve as a
guide only. All tests are carried out as per ASTM D standard unless otherwise stated. Testing of all mechanical
properties is done with an injection molded specimen of 3.2 mm. In actual applications, properties can be
affected to a considerable extent by the mould / die design, the processing conditions and the colour.

Environmental
Supreme polystyrene resins can be recycled, incinerated or disposed off in landfill without detriment to the
environment. Adequate ventilation should be provided during processing. Where recycling of Supreme
Polystyrene is not possible, disposal to landfill or incineration in accordance with all applicable government laws
and regulations is recommended. Material Safety Data Sheets (MSDS) for Supreme Polystyrene resins are
available from Supreme Petrochem Ltd. MSDS are provided to help customers in their own handling, safety and
disposal needs and those that may be required for applicable health and safety regulations e.g. OHSAS 18001
and ISO14000. Supreme flame retardant polystyrene grades contains additives which may release hazardous or
toxic vapors through lengthy or excessive exposure to high heat. Kindly, refer to recommended processing
temperatures and use suitable personal protective equipments.

Handling Precautions
While the handling of Supreme polystyrene pellets generally does not present unusual problems, a dust can be
formed under some circumstances. If workers are exposed to this dust, they should be protected from dust
inhalation by use of approved dust respirators. Contact with the skin and eyes should be prevented by use of
protective equipment and/or clothing. SPL recommends storing of polystyrene in cool & dry place in a shade
away from sunlight and heat. The packing used is not UV stabilised and hence should not be exposed to sunlight.

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