

Supreme SH 731 E

High Impact Polystyrene Technical Datasheet



CHARACTERISTIC

- High Impact grade
- Excellent Formability
- Low Temperature Toughness

PROCESSING

- Extrusion & Forming

APPLICATIONS

- Thermoformed food & non food packaging, extruded profile
- Plates, dishes, disposable cups, deep drawn thermoformed containers
- General purpose sheet & formed products
- Extruded profile

- **Material status:** Commercially active
- **Agency ratings:** FDA 21 CFR177:1640, UL file No. E185934, RoHS compliant.

| Property | Test Method | Test Condition | Nominal Value | Unit |
|------------------------------|-------------|----------------|---------------|---------------------|
| Rheological | | | | |
| Melt Flow Index | ASTM D1238 | 200°C/5Kg | 4.5 | gm/10 min |
| Thermal | | | | |
| Vicat Softening Point | ASTM D1525 | 120°C/hr, 1 Kg | 102 | °C |
| Heat Deflection temprature | ASTM D648 | 1.86 Mpa | 80 | °C |
| Mechanical | | | | |
| Tensile Strength | ASTM D638 | 50 mm/min | 265 | kgf/cm ² |
| Elongation | ASTM D638 | 50 mm/min | 50 | % |
| Flexural Strength | ASTM D790 | 3.2 mm | 425 | kgf/cm ² |
| Flexural Modulus | ASTM D790 | 3.2 mm | 20380 | kgf/cm ² |
| Izod Impact (Notched) | ASTM D256 | 3.2 mm | 100 | J/m |
| Flammability | | | | |
| Flammability | UL 94 | @1.6mm | HB | - |
| General | | | | |
| Specific Gravity | ASTM D792 | - | 1.03 | - |
| Processing Conditions | | | | |
| Maximum Melt Temperature | - | - | 180-260 | °C |
| Pre-drying Temperature | - | 2 hr | 50-80 | °C |
| Mold Temperature | - | - | - | °C |

Data presented in this catalogue are typical values of properties and are intended to serve as guide only. SPL reserves the right to review & revise the contents of this catalogue without prior notice.



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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 used 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. 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 persons 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.

Exclusion of Liability

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