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 wihout prior notice.

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

Supreme SH 731 E

High Impact Polystyrene
Technical Datasheet

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

The information contained herein is provided for general reference purposes only. By providing the information contained herein, Supreme Petrochem Ltd makes no guaranty or warranty, and does not assume any liability with respect to the accuracy or completeness of such information or the product results in any specific instance and hereby expressly disclaims any implied warranties of merchantability or fitness for a particular purpose or any other warranties or representations whatsoever, expressed or implied. Nothing contained herein shall be construed as a licence to use the products of Supreme Petrochem Ltd in any manner that would infringe any patent.

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