

## SH 03

### Characteristics:

- High flow
- Good melt strength
- Excellent toughness

### Processing:

- Molding

### Applications:

- Gas assisted injection molding of T.V cabinets.
- Suitable for thin walled parts, AC grills and toys
- Base material for compounding

Material Status	:	Commercial : Active
Agency Ratings	:	FDA 21 CFR 177.1640, UL File E185934

PROPERTY	ASTM TEST METHOD	TEST CONDITION	VALUE	UNIT
<b>Rheological</b>				
Melt Flow Index	D1238	200°C / 5kgs	10	gm / 10 min
<b>Thermal</b>				
Vicat Softening Point	D1525	1kg/ 120 °C	97	°C
HDT (Unannealed)	D648	18.564 kg/cm <sup>2</sup>	76	°C
<b>Mechanical</b>				
Tensile Strength	D638	50 mm/min.	220	Kg / cm <sup>2</sup>
Elongation	D638	50 mm/min.	50	%
Flexural Strength	D790	3.2 mm	370	Kg / cm <sup>2</sup>
Flexural Modulus	D790	3.2 mm	18000	Kg / cm <sup>2</sup>
Izod Impact (Notched)	D256	3.2 mm	100	J/m
<b>Flammability</b>				
Glow wire temperature	IEC 695-2-1	-	-	°C
Flammability	UL 94	@ 1.6mm	HB	-
<b>General</b>				
Specific Gravity	D792	-	1.03	-
<b>Processing Conditions</b>				
Melt temp.	-	-	180-260	°C
Pre drying temp.	-	-	NA	°C
Mold temp.	-	-	40-60	°C

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



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### Test Method & Standard Properties

Data presented in this catalogue is typical values of properties for natural material and intended to serve as a guide only. All tests are carried out at 23°C unless otherwise stated. Testing of all mechanical properties is done with injection moulded 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. MSD sheets are provided to help customers their own handling , safety and disposal needs, and those that may be required for applicable health and safety regulations e.g. OSHA, ISO14000.

Supreme flame retardant polystyrene grades contains additives which may release hazardous or toxic vapors at given 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 .

### Exclusion of Liability

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