



Performance Product Range

# FLAME RETARDANT POLYSTYRENE(FR-HIPS)

**SP555**

### Characteristics:

- Ignition Resistant - UL94 "V0" rated.
- Very Good Flow Properties
- Good Balance of Toughness and Rigidity
- Available in all colours
- Incorporating DBDPO

### Processing

- Molding

### Applications:

- Large size TV Cabinets
- VCR cabinets
- Electrical boxes, electrical appliance parts
- Business Machines

Material Status : Commercially Active

Agency Ratings : UL File E185934

PROPERTY	ASTM TEST METHOD	TEST CONDITION	VALUE	UNIT
<b>Rheological</b>				
Melt Flow Index	D1238	200 °C / 5kg	8.0	gm / 10 min
<b>Thermal</b>				
Vicat Softening Point	D1525	120 °C/hr, 1kg	98	°C
HDT (Unannealed)	D648	1.86 MPa	80	°C
Ball Pressure temperature	IEC335-1	-	-	°C
<b>Mechanical</b>				
Tensile Strength	D638	50 mm/min	26	MPa
Elongation	D638	50 mm/min	30	%
Flexural Strength	D790	3.2 mm	35	MPa
Flexural Modulus	D790	3.2 mm	1900	MPa
Izod Impact (Notched)	D256	3.2 mm	100	J/m
<b>Electrical</b>				
CTI	IEC112	-	-	V
Dielectric Constant, 1MHz	IEC250	-	2.6	-
Dissipation Factor, 1MHz	IEC250	-	4 x 10 <sup>-4</sup>	-
Surface Resistivity	IEC93	-	>10 <sup>14</sup>	Ω
Volume Resistivity	IEC93	-	>10 <sup>16</sup>	Ω.cm
<b>Flammability</b>				
Glow Wire Temperature	IEC 695-2-1	1.6 mm	-	°C
Flammability	UL 94	@ 1.6 mm	V0	-
<b>General</b>				
Specific Gravity	D792	-	1.16	-
<b>Processing conditions</b>				
Maximum Melt Temperature	-	-	250	°C
Pre-drying Temperature	-	-	60-80	°C
Mold Temperature	-	-	40-60	°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 the content of this catalogue and revise.



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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 at 23°C 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 MSD sheets 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 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

### Exclusion of Liability

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