



Performance Product Range

FLAME RETARDANT POLYSTYRENE(IR-HIPS)

SP554

Characteristics:

- Ignition Resistant - UL94 "V0" rated
- Excellent Flow Properties
- Good Balance of Toughness and Rigidity
- Incorporating DBDPO

Processing:

- Molding
- Gas Assist 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 |
|------------------------------|------------------|----------------|----------------------|-------------|
| Rheological | | | | |
| Melt Flow Index | D1238 | 200 °C / 5kg | 15 | gm / 10 min |
| Thermal | | | | |
| Vicat Softening Point | D1525 | 120 °C/hr, 1kg | 96 | °C |
| HDT (Unannealed) | D648 | 1.86 MPa | 79 | °C |
| Ball pressure temperature | IEC335-1 | - | 75 | °C |
| Mechanical | | | | |
| Tensile Strength | D638 | 50 mm/min | 23 | MPa |
| Elongation | D638 | 50 mm/min | 30 | % |
| Flexural Strength | D790 | 3.2 mm | 36 | MPa |
| Flexural Modulus | D790 | 3.2 mm | 1800 | MPa |
| Izod Impact (Notched) | D256 | 3.2 mm | 100 | J/m |
| Electrical | | | | |
| CTI | IEC112 | - | - | V |
| Dielectric Constant, 1MHz | IEC250 | - | 2.6 | - |
| Dissipation Factor, 1MHz | IEC250 | - | 4 x 10 ⁻⁴ | - |
| Surface Resistivity | IEC93 | - | >10 ¹⁴ | Ω |
| Volume Resistivity | IEC93 | - | >10 ¹⁶ | Ω.cm |
| Flammability | | | | |
| Glow Wire Temperature | IEC 695-2-1 | 1.6 mm | 850 | °C |
| Flammability | UL 94 | @ 2 mm | V0 | - |
| General | | | | |
| Specific Gravity | D792 | - | 1.15 | - |
| Processing conditions | | | | |
| Maximum Melt Temperature | - | - | 250 | °C |
| Pre-drying Temperature | - | 2hr | 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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SUPREME PETROCHEM LTD

Corporate Office, Exports & Zonal Office (West)

17/18, Shah Industrial Estate, Veera Desai Road, Andheri (West), Mumbai-400 053, India.

Ph. : (91-22) 2673 6196 to 99, Fax: (91-22) 2673 4783/ 2673 6203 / 5693 5930, Website : www.supremepetrochem.com

E-mail: | Exports: export@spl.co.in | West Zone: marketing@spl.co.in | Business Development: appl_dev@spl.co.in

Zonal Office (North)

FGL, 9th Floor, Gopala Towers,
25, Rajindra Place,
New Delhi - 110 008
Ph.: (91-11) 2573 0405-06
Fax: (91-11) 2573 0405-06
E-mail: spl_delhi@spl.co.in

Zonal Office (South)

144/4, Baab Enclave, Little Mount,
Saidapet, Chennai-600 015
Ph.: (91-44) 2235 5065 / 2235 4074
Fax: (91-44) 2235 5065 / 2235 4074
E-mail: spl_chennai@spl.co.in

Sales Offices

Vadodara : Telefax : (91-265) 2284521
Kolkata : Telefax : (91-33) 24160278
Bangalore : Telefax : (91-80) 23565110

Works

Village Amdoshi / Wangani,
Wakan - Roha Road,
Taluka Roha, Dist. : Raigad.
Maharashtra - 402 106.
Ph.: (91-2194) 222540 to 222548
Fax: (91-2194) 222617 & 222537

