

Supreme SH 2157

High Impact Polystyrene

Technical Datasheet



CHARACTERISTIC

- **Excellent ESCR Properties**
- Suitable for blowing agent like R11, HCFC 141 b & CycloPentane
- Good Formability
- Low Temperature Toughness
- Matte Easily Decorated Finish
- Good Toughness
- Good Low Temperature Impact Strength

PROCESSING

- Extrusion & Forming
- Molding
- **Material status:** Commercially active
- **Agency ratings:** FDA 21 CFR177:1640, UL file No. E185934, RoHS complaint.

APPLICATIONS

- Refrigerator door, Cabinet liners & accessories
- Freezer liners ● Decorative trim
- Picnic cooler liners ● Printed materials
- Ice cream cups, plates and bowls
- Custom sheet extrusion applications
- Portion packaging ,cups, lids & plates
- Frozen food packaging
- Portion packaging ,cups, lids & plates
- Disposable medical kits
- Retail displays ● Indoor signs
- Dairy packaging ● Food processing equipment

Property	ASTM Method	Test Condition	Value	Unit
Rheological				
Melt Flow Index	D1238	200°C/5Kg	4	gm/10 min
Thermal				
Vicat Softening Point	D1525	120°C/hr, 1 Kg	98	°C
Heat Deflection temperature	D648	1.86 Mpa	76	°C
Mechanical				
Tensile Strength	D638	50 mm/min	20	Mpa
Elongation	D638	50 mm/min	50	%
Flexural Strength	D790	3.2 mm	34	Mpa
Flexural Modulus	D790	3.2 mm	1800	Mpa
Izod Impact (Notched)	D256	3.2 mm	110	J/m
Flammability				
Glow wire temperature	IEC 695-2-1	-	-	°C
Flammability	UL 94	@1.6mm	HB	-
General				
Specific Gravity	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 the content of this catalogue & 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 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. 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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