

Technical Datasheet

FEATURES

- Good balance of flow and strength
- High stiffness
- USP Class VI certified
- UL Classification 94 HB (www.UL.com file E57787)

APPLICATIONS

- Medical labware
- Appliance accessory parts
- Profile extrusion
- Cosmetic cases

| Property, Test Condition | Standard | Unit | Values |
|--------------------------------------------------------|-------------|-----------|----------------|
| Rheological Properties | | | |
| Melt Flow Rate, 200 °C/5 kg | ASTM D 1238 | g/10 min | 3 |
| Mechanical Properties | | | |
| Izod Notched Impact Strength, 23°C (73°F) | ASTM D 256 | ft-lb/in | 0.4 |
| Tensile Modulus | ASTM D 638 | psi x 103 | 460 |
| Elongation, Failure | ASTM D 638 | % | 2 |
| Flexural Strength | ASTM D 790 | psi | 14500 |
| Flexural Modulus | ASTM D 790 | psi x 103 | 480 |
| Hardness, Rockwell | ASTM D 785 | M scale | 76 |
| Thermal Properties | | | |
| Vicat Softening Temperature, B/1 (120°C/h, 10N) | ASTM D 1525 | °F | 223 |
| Coefficient of Linear Thermal Expansion | ASTM D 696 | 10-4/°F | 0,4 |
| Electrical Properties | | | |
| Dielectric Constant at 106 CPS (1000000 Hz, 0,0394 in) | ASTM D 150 | - | 2.5 |
| Dielectric Strength, 1/8" | ASTM D 149 | kV/in | 500 |
| Optical Properties | | | |
| Refractive Index, Sodium D Line | ASTM D 542 | - | 1.59 |
| Light Transmission at 550 nm | ASTM D 1003 | % | 88 - 90 |
| Other Properties | | | |
| Density | ASTM D 792 | - | 1.04 |
| Processing | | | |
| Linear Mold Shrinkage | ASTM D 955 | in/in | 0.004 to 0.007 |

Styrolution PS 1300/1301

General Purpose Polystyrene (GPPS)



Typical values for uncolored products

SUPPLY FORM

Styrolution PS 1300 can be supplied in two versions, with (grade name ending in 1) or without an external lubricant (grade name ending in 0) for improving pneumatic conveying. Styrolution PS resins are available in bulk railcar and bulk truckload quantities.

FOOD CONTACT COMPLIANCE STATEMENT

United States - Complies with the specifications contained in U.S.A. Food and Drug Administration (FDA) regulation 21 CFR 177.1640 for polystyrene and rubber modified polystyrene, and thus may be used in the United States as an article or a component of an article intended for use in contact with food, subject to any limitations described in the regulations. Canada - Please contact Styrolution for information on the use of this resin in the packaging of specific foodstuffs in Canada.

PRODUCT SAFETY

Styrolution PS resins are biologically and chemically inert, but improper disposal may present an ingestion hazard to wildlife. Where recycling of Styrolution PS resins is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended. Please contact Styrolution Technical Service for further information on recycling and disposal of Styrolution resins.

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