



الشركة المصرية لإنتاج الستيرين و البولي ستيرين
Egyptian Styrene and Polystyrene Production Company

Standard Sales Specifications

General Purpose Polystyrene

Estyrenics GPPS 123

| Property | Unit | Specification | Test conditions | Reference |
|-------------------------------------|--------------------------|---------------|------------------|----------------|
| <u>Physical Properties</u> | | | | |
| Melt volume rate | cm ³ / 10 min | 8-12 | 200 °C / 5kg | ISO 1133 R |
| <u>Thermal Properties</u> | | | | |
| Vicat Softening Point | °C | 85 min. | 50 °C / hr ,5 kg | ISO 306 B |
| <u>Mechanical Properties</u> | | | | |
| Tensile Strength @ Break | MPa | 40 | 5 mm/min | ISO R 527-2 |
| Tensile Modulus | MPa | 3100 | 1 mm/min | ISO R 527-2 |
| Elongation | % | 2 | 5 mm/min | ISO R 527-2 |
| Flexural Strength | MPa | 75 | 2 mm/min | ISO 178 |
| Flexural Modulus | MPa | 2900 | 2 mm/min | ISO 178 |
| Charpy Impact (Unnotched) | KJ/m ² | 8 | 2 J pendulum | ISO 179 / 1 eU |
| <u>General Properties</u> | | | | |
| Bulk density | g/ml | 0.580 | | ISO 60 |

Note:

Information contained in the publication is true and accurate based on our current knowledge and experience

This information is to help users in processing and application of the product. Before using the product, users should carry out their own investigation and tests as many factors affect processing and application.

