



E-styrenics GPPS 251

Technical Data Sheet

Description

E-styrenics GPPS 251 is a general purpose polystyrene grade with high heat resistance and satisfactory flow properties. It is suitable for the extrusion of sheets and foamed films using a direct gas injection method, and also for injection molding of articles with a high heat resistance.

Examples of Application

Beakers for hot drinks, film and tape reels, lamp covers, thermoformed packaging (blended with high impact grades), sheets for shower cubicle partitions and ceiling panels.

Property	Specifications	Unit	Conditions	Method
Physical Properties				
Melt Volume Rate	2 – 3.5	cm ³ /10 min	200 °C, 5 kg	ISO 1133
Density	1050	kg/m ³		ISO 1183
Thermal Properties				
Vicat Softening Point	99 min	°C	50 °C/hr, 5 kg	ISO 306 B
Mechanical Properties				
Tensile Strength @ break	50	MPa	5 mm/min	ISO 527-2
Tensile Modulus	3100	MPa	1 mm/min	ISO 527-2
Elongation	3	%	5 mm/min	ISO 527-2
Flexural Strength	100	MPa	2 mm/min	ISO 178
Flexural Modulus	2800	MPa	2 mm/min	ISO 178
Charpy Impact	12	KJ/m ²	Unnotched	ISO 179/1eU

E-styrenics GPPS 251 can be supplied in two versions, with or without an internal lubricant. If described as E-styrenics GPPS 251D, "D" indicates that no internal lubricant is used.

Bulk density is approximately 0.6 g/cm³.

E-styrenics GPPS 251 complies with EU regulations NO.10/2011 as amended by EU regulations 1282/2011 and 1183/2012 for use in contact with all classes of foodstuff.

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.