



الشركة المصرية لإنتاج الستيرين والبولي ستيرين (استيرنكس)

Egyptian Styrene & Polystyrene Production Company (Estyrenics)

E-styrenics GPPS 153D

Technical Data Sheet

Description

Empera 153 0 is a general purpose polystyrene with high heat resistance and good flow properties. Empera 153 D is free of internal lubricants, e.g. zinc stearate. Empera 153 0 can be processed by all the methods normally used for polystyrene. It is preferably processed by extrusion to foamed sheets and boards using a direct gas injection method, especially when using halogenated flame retardant additives.

Examples of Application

Foamed insulation boards (XPS).

Property	Specifications	Unit	Conditions	Method
Physical Properties				
Melt Volume Rate	5.9 – 8.9	cm ³ /10 min	200 °C, 5 kg	ISO 1133
Density	1050	kg/m ³		ISO 1183
Thermal Properties				
Vicat Softening Point	102	°C	50 °C/hr, 5 kg	ISO 306 B
Mechanical Properties				
Tensile Strength @ break	52	MPa	5 mm/min	ISO 527-2
Tensile Modulus	3300	MPa	1 mm/min	ISO 527-2
Elongation	2	%	5 mm/min	ISO 527-2
Flexural Strength	75	MPa	2 mm/min	ISO 178
Flexural Modulus	2800	MPa	2 mm/min	ISO 178
Charpy Impact	8	KJ/m ²	Unnotched	ISO 179/1eU

Bulk density is approximately 0.6 g/cm³

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.

www.estyrenics.com
Your progress is our success