

Product description

Polystyrol 143 E is a medium strength, easy flowing general purpose grade, suitable for blending with impact modified Polystyrol, Styrolux and for coextruded gloss layers.

Processing

Polystyrol 143 E can be injection molded at temperatures between 180 and 280°C.Recommended mold temperatures are between 10 and 60°C.

Extrusion melt temperature should not exceed 240°C.

Applications

In blends with high impact polystyrene or Styrolux: thermoformed articles like cups for cold beverages and lids. As easy flowing coextruded gloss layer on food packaging containers and vending cups. Injection molded articles like razors, tooth brushes, packing articles.

Physical form and Storage

Polystyrol 143 E should be kept in its original containers in cool, dry place. Avoid direct exposure to sunlight. Polystyrol 143 E can be stored in silos.

Food legislation

If used unmodified and under appropriate processing conditions parts from Polystyrol 143 E comply with the usual requirements for food packaging. Detailed written confirmations (e.g. BGVO, FDA) are given on request. Please contact our regional sales office.

Product safety

During processing of Polystyrol 143 E small quantities of styrene monomer may be released into the atmosphere. At styrene vapour concentrations below 20 ppm no negative effects on health are expected. In our experience, the concentration of styrene does not exceed 1 ppm in well ventilated workplaces - that is where five to eight air changes per hour are made.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. In order to check the availability of products please contact us or our sales agency.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注:以上原料物性数据由IDES发布,我公司仅提供参考!数据如有变动,请联系原料生产厂家获知。我公司不承担任何法律责任!

Polystyrol 143 E



Typical values 1) at 23°C	Test method ²⁾	Unit	Values
Mechanical Properties			
Tensile modulus Stress at break Strain at break Flexural strength Shear modulus Charpy impact strength (23°C) Charpy notched impact strength (23°C) Ball indentation hardness Force Duration	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 6721-2 ISO 179/1eU ISO 179/1eA ISO 2039-1 ISO 2039-1	MPa MPa % MPa MPa kJ/m² kJ/m² MPa N	3300 46 2 72 1350 <25 3 150 358
Thermal properties			
Vicat softening temperature VST/B/50 Vicat softening temperature VST/A/120 HDT A (1.80 MPa) HDT B (0.45 MPa)	ISO 306 ISO 306 ISO 75-1/-2 ISO 75-1/-2	ိ င င င	84 90 72 82
Processing			
Melt volume-flow rate MVR 200/5 Processing: Injection moulding (M), Extrusion (E), Blow moulding (B) Melt temperature, injection moulding Mold temperature, injection molding Melt temperature, flat film	ISO 1133 - - - - -	cm³/10min - °C °C °C	10 M.E 180 - 280 10 - 60 200 - 240
Electrical properties			
Relative permittivity (100Hz) Relative permittivity (1 MHz) Volume resistivity Surface resistivity Electric strength K20/P50	IEC 60250 IEC 60250 IEC 60093 IEC 60093 IEC 60243-1	- Ohm*m Ohm kV/mm	2.5 2.5 >1E16 >1E14 135
Flammabillity			
UL 94 (d = 1,6 mm) UL 94 (d = 3,2 mm)	UL 94 UL 94	class class	НВ НВ
Other properties			
Density Water absorption, equilibrium in water at 23°C Moisture absorption, equilibrium 23°C/50% r.h.	ISO 1183 similar to ISO 62 similar to ISO 62	kg/m³ % %	1043 <0.1 <0.1

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Footnotes
1) If the product definition doesn't state otherwise.
2) Specimens according to CAMPUS.