



TotalEnergies

Refining & Chemicals
Polymers

POLYSTYRENE COMPOUND 4440

Technical data sheet – Issue 4
Compound Polystyrene
Produced in Europe

Description

POLYSTYRENE (PS) COMPOUND (CPD) 4440 is a high impact polystyrene for the injection moulding of parts demanding good dimensional stability at high temperatures, particularly boxes, frames, electronic devices. In addition, the flow properties of this grade make it particularly suitable for the moulding of large parts and for use with techniques such as gas injection.

Main characteristics

- ✓ High impact

Applications

Covers for electrical equipment. Office automation.

Properties

	Method	Unit	Typical Value (*)
Rheological properties			
Melt Flow Rate 230°C/2,16 kg	ISO 1133-D	g/10 min	10.0
Mechanical properties			
Flexural modulus	ISO 178	MPa	2000
Izod impact strength (notched) at 23°C	180/1A	kJ/m ²	10.0
Thermal properties			
Vicat Softening point A50 (10N, 50°C/h)	ISO 306	°C	88
Other physical properties			
Density (**)	ISO 1183	g/cm ³	< 1.13

(*) Data not intended for specifications purposes

(**) based on natural resin

Processing conditions

Maximum melt temperature is 260°C.

Under normal processing conditions, this grade is heat stable. However, do not leave in barrel when moulding machine is idle. Always purge with clean natural PS, PP or any propriety purging compound.

Ensure all fumes are extracted at source.

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. These are typical values not to be construed as specification limits. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. The Companies within TotalEnergies Petrochemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.

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Speciality Compound





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General information

Standard properties: all tests carried out @ 23°C unless stated otherwise. Mechanical properties are measured on injection moulded specimens.

Bulk density: bulk density of all natural grades is approximately 0.6 g/cm³.

PS CPD 4440 should be kept in cool and dry place. Avoid direct exposure to sunlight.

Handling and storage

Please refer to the material safety data sheet (MSDS) for handling and storage information. It is advisable to convert the product within one year after delivery. Provided storage conditions are used as given in the MSDS of our product.

MSDS may be obtained from the website: <https://polymers.totalenergies.com/>

