

Description

POLYSTYRENE (PS) COMPOUNDS (CPDS) 856 is, a high impact halogen free polystyrene which offers a good balance of rheological and mechanical properties.

Main Characteristics

Bromine and Chlorine free
UL94 V0 @ 3.0 mm.
Good UV stability

Applications

Covers for electrical equipment. TV covers. Office automation.

Properties

Flammability rating	Method	Unit	Value
UL 94 V0 – All colours		mm	3.0
Rheological			
Melt Flow index (200°C-5Kg)	ISO 1133H	g/10mn	4.0
Melt Flow index (200°C-10Kg)	ISO 1133H	g/10mn	12.0
Thermal			
Vicat softening point 50N (T° increase of 50°C/h)	ISO 306B50	°C	81
Mechanical			
Izod notched impact strength at 23°C	180/1A	KJ/m ²	7.0
Tensile yield strength	ISO 527-2	MPa	35
Elongation at break	ISO 527-2	%	40
Flexural modulus	ISO 178	MPa	2300
Miscellaneous			
Density at 23°C	ISO 1183	g/cm ³	< 1.1
Moulding shrinkage		%	0.4 – 0.7
Water absorption	ISO 62	%	<0.1
Processing conditions			
<ul style="list-style-type: none"> ➤ Maximum melt temperature is 300°C, though typically 250/280°C is used. ➤ 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. 			

General information

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

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

Avoid direct exposure to sunlight, refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within six months after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: www.totalpetrochemicals.biz.

Please check information on Material and safety Data Sheet before use.

Please contact our technical office for more details.

DISCLAIMER

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. 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, and particularly the conformity with current regulations. TOTAL PETROCHEMICALS do not recommend its polystyrene resins for use in any application in direct or indirect contact with human body fluids and tissues. The Companies within TOTAL 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.

