

## Description

POLYSTYRENE (PS) COMPOUNDS (CPDS) 853 is a high impact, high stiffness halogen free flame retardant polystyrene

## Main Characteristics

- ✓ Bromine and Chlorine free
- ✓ UL94 V2 @ 1.6 mm with very low combustion time
- ✓ Good flow and UV properties

## Applications

Covers for electrical equipment. TV covers. Office automation.

## Properties

Flammability rating	Method	Unit	Value
UL 94 V2 – All colors		mm	1.6
<b>Rheological</b>			
Melt Flow index (200°C-5Kg)	ISO 1133H	g/10mn	5.0
<b>Thermal</b>			
Vicat softening point 50N (T° increase of 50°C/h)	ISO 306B50	°C	81
<b>Mechanical</b>			
Izod notched impact strength at 23°C	180/1A	KJ/m <sup>2</sup>	7.0
Tensile yield strength	ISO 527-2	MPa	32
Elongation at break	ISO 527-2	%	40
Flexural modulus	ISO 178	MPa	2500
<b>Miscellaneous</b>			
Density at 23°C	ISO 1183	g/cm <sup>3</sup>	1.06
Moulding shrinkage		%	0.4 – 0.7
Water absorption	ISO 62	%	<0.1
<b>Processing conditions</b>			
<ul style="list-style-type: none"> <li>➤ Maximum melt temperature is 300°C, though typically 250/280°C is used.</li> <li>➤ 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.</li> <li>➤ Ensure all fumes are extracted at source.</li> </ul>			

## 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/cm<sup>3</sup>.
- 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](http://www.totalpetrochemicals.biz).
- Please check information on Material and safety Data Sheet before use.
- Please contact our technical office for more details

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