

Description

POLYSTYRENE (PS) COMPOUNDS (CPDS) 820 is a high impact brominated flame retardant polystyrene. A combination of high flow and high heat stability gives excellent processability and reduced cycle times. PS CPDS 820 can be supplied in both natural and colored forms.

Main Characteristics

- ✓ DBDPE free
- ✓ UL94 V2 @ 1.6 mm.
- ✓ High flow, high heat stability
- ✓ Excellent UV stability

Applications

Covers for electrical equipment - Toners cartridges - Internal enclosures for office automation.

Properties

Flammability rating	Method	Unit	Value
UL 94 V2 – All colors		mm	1.5 – 1.7
Rheological			
Melt Flow index (200°C-5Kg)	ISO 1133H	g/10mn	14
Thermal			
Vicat softening point 50N (T° increase of 50°C/h)	ISO 306B50	°C	87
Mechanical			
Izod notched impact strength at 23°C	180/1A	KJ/m ²	7.5
Tensile yield strength	ISO 527-2	MPa	24
Tensile strength at break	ISO 527-2	MPa	18
Elongation at break	ISO 527-2	%	45
Flexural modulus	ISO 178	MPa	2400
Miscellaneous			
Density at 23°C	ISO 1183	g/cm ³	1.09
Moulding shrinkage		%	0.4 – 0.7
Water absorption	ISO 62	%	<0.1
Processing conditions			
➤ Maximum melt temperature is 240°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.			

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.