

POLYSTYRENE COMPOUND 818E

Technical data sheet – Issue 4
Flame retardant Polystyrene
Produced in Europe

Description

POLYSTYRENE (PS) COMPOUND (CPD) 818E is a high impact brominated flame retardant polystyrene for applications that required HGW performances.

PS CPD 818E can be supplied in both natural and coloured forms.

Main characteristics

✓ UL 94 V0 @ 1.6 mm for black compounds and @ 2 mm for all other coloured compounds.

Applications

Covers for electrical equipment. Office automation.

Properties

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Rate 200°C / 5 kg	ISO 1133-D	g/10 min	8.5
Flame retardant properties			
UL 94 black	UL 94 @ 1.6 mm		V0
UL 94 all colours	UL 94 @ 2 mm		V0
Mechanical properties			
Flexural modulus	ISO 178	MPa	2300
Izod impact strength (notched)			
at 23°C	180/1A	kJ/m²	7.0
Thermal properties			
Vicat Softening point A50 (10N, 50°C/h)	ISO 306	°C	83
Other physical properties			
Density (**)	ISO 1183	g/cm³	< 1.13

^(*) HGW value measured on injected standard samples (thickness : 2 mm)

Processing conditions

Maximum melt temperature is 260°C.

under normal processing conditions, this grade is heat stable. However, do not leave material in barrel when moulding machine is idle.

always purge with clean natural PS, PP or any property purging compound.

Ensure all fumes are extracted at source.

General information.

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

Bulk density: based on natural resin is approximately 0.6 g/cm³.

PS CPD 818E should be kept in a cool and dry place. Avoid direct exposure to sunlight.

^(**) based on natural resin