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POLYSTYRENE COMPOUND 801

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

Description

POLYSTYRENE (PS) COMPOUND (CPD) 801 is a high impact brominated flame retardant polystyrene for use in injection moulding and extrusion / thermoforming.
PS CPD 801 can be supplied in both natural and coloured form.

Main characteristics

- ✓ Excellent UV stability.
- ✓ UL94 V0 @ 1.6 mm and UL94 5VB @ 2.5 mm.

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	5
Flame retardant properties			
UL 94 5VB - colored	UL 94	mm	2.5
UL 94 V0 – All colors	UL 94	mm	1.6
Mechanical properties			
Flexural modulus	ISO 178	MPa	2300
Izod impact strength (notched)			
at 23°C	180/1A	kJ/m²	8.0
Thermal properties			
Vicat Softening point A50 (10N, 50°C/h)	ISO 306	°C	85
Other physical properties			
Density	ISO 1183	g/cm³	< 1.13

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.

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/cm^3.
PS CPD 801 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/

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