

A: Product description

Proprietary phosphorus based halogen free, flame retardant

B: Physical properties

Appearance:	Fine powder
Color	White
Odour:	Slight
Phosphorus (%)	~ 31%
Density (gr/cc)	~ 2,2 gr/cc
Particle size:	D ₅₀ : ~ 3 -7 µm
Bulk density:	~ 450 kg/m ³

C: Toxicology

Oral toxicity 200 < LD₅₀ (rat) < 2000 mg/kg
Classification Xn; R22, R41, R 43
Maximum allowable workplace concentration: not stipulated

D: Transport

Not regulated

E: Applications

Phoslite B85CX is a very effective solution for flameproofing Polycarbonate, glass fibres reinforced, and its alloys (PC and PC/ABS) showing outstanding HDT and VICAT properties.

PC: typically Phoslite B85CX additive is used at 5% to 8% to provide flame retardancy (UL 94 V0 at 1.6 mm) to PC, lower addition levels require antidripping (PTFE).

20% glass filled PC: UL 94 V0 at 1.6 mm (Formulation: 7% - 10% Phoslite B85CX, antidripping).

Unfilled PC/ABS: UL 94 V0 at 1.6 mm (Formulation: PC/ABS = 70/30, 8%-12% Phoslite B85CX, antidripping)

Additional application data and further developments can be discussed with Italmatch Chemicals Technical Development Center.

F: Processing

Phoslite B85CX does not interact with the common processing additives like: stabilisers, crosslinking agents, processing aids, pigments, etc.

Max processing temperature: 300°C Low processing temperatures, friction and shears during the blending of Phoslite B85CX with PC or PC/ABS results in excellent retain of MFR and Impact Properties. Polycarbonate pre-drying prior to compounding is always recommended.

G: Packaging

The product is available in 15 Kg plastic bags.

H: Storage and handling

The product is stable if maintained in the original bags and in a dry place at room temperature.

Keep the product away from strong oxidizing substances and hot alkaline solutions.

Handle the product in compliance with good industrial practice.

The information provided is based on our present knowledge and given as guidance for product use. The loading reported should be only regarded as guidance, however experimental check is needed on the polymer used and the flame retardancy class desired. The data reported do not constitute a guarantee. Quality of product is guaranteed under Italmatch Chemicals General Conditions of Sale. Existing property rights, if any, must be observed.

PHOSLITE — *Halogen free powder flame retardants*