

Arichem STB-FR[®]

Arichem STB-FR is Sodium Trichlorobenzenesulfonate. This white powder organic compound is an excellent economic flame retardant for opaque PC compounds.

Product Application

The **Arichem STB-FR** PC formulation below has been shown to meet Underwriters Laboratories (UL) 94 V0 flame retardant (FR) requirements at a specimen thickness of 3.2 mm (1/8"). The formulation uses Teflon (or PTFE) as a drip suppressant. Other drip suppressants may also achieve the same UL 94 V0 test results.

Formulation Component	Loading %
Polycarbonate (3 MFI homopolymer)	99.4
Arichem STB-FR	0.5
PTFE	0.1
UL 94 V0 @ 3.2mm	Pass

Arichem STB-FR provides FR performance at fractional loading levels or at less than 1% by weight in the PC formulation. It may be helpful to produce and utilize Arichem STB-FR in concentrate form to improve dispersion into the PC matrix.

Product Benefits

Arichem STB-FR when used at low levels (0.2%) could be considered for inclusion in non-halogen formulations. Since regulations for non-halogen classification vary with application discussion with Arichem technical personnel is advised.

In brominated FR PC systems, **Arichem STB-FR** at 0.2% loading can reduce by 75% the amount of brominated FR required for UL flammability performance.

More information, samples, and specifications for **Arichem STB-FR** are available upon request.

For Sampling or Technical Inquiries:

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