



Plastic & polymer additives and solution supplier
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Technical Data Sheet

ProFlame™ HES/HES-2

Name: Complex Sulphonate Salt Blend

HES/HES-2 is a high efficiency product used especially for flame retarding PC. HES is specifically designed for most effectiveness in translucent and opaque PC. For Transparent PC, HES-2 is best choice.

The active sulfonate content of HES/HES-2 is much more than that of Potassium Perfluoro-butyl sulfonate (KPBS) and other sulfonate FR products. FR effectiveness has been shown to be closely related to sulfonate content.

Tech Spec:

Item	Index
Appearance	White powder
Moisture%	≤0.5%
PH (5% aqueous solution)	6.5-7.3
Sulphonate Salt	≥95%
ISOMERS+Unknown	≤5.0%
Sulfate	≤1.0%
Iron	≤5ppm

Usage

UL94-V0 1.6mm Non Halogen PC FR formulation:

(HES dosage less than 0.2%, HES2 dosage less than 0.15%)

PC (6MFI)	97.85	PC (6MFI)	97.88
HES	0.15	HES2	0.12
Siloxane Anti-drip	2.0	Siloxane Anti-drip	2.0

UL94-V0 1.6mm Halogen PC FR formulation:

(HES dosage less than 0.2%, HES2 dosage less than 0.1%)

PC (6MFI)	99.65	PC (6MFI)	99.7
HES	0.15	HES2	0.1
PTFE	0.2	PTFE	0.2

Packing :

Net weight: 20kg/ bag or 20kg/drum

It is not dangerous cargo .You should handle the material according to the instruction described on MSDS.The MSDS is available from sales department once required.

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