

DDB 30

Chemical name	: 2,3-dimethy-2,3-diphenylbutane
Synonym	: 1,1'-(1,1,2,2-tetramethylethylene)dibenzene
CAS	: 1889-67-4
Chemical formula	: C ₁₈ H ₂₂
Molecular weight	: 238

Application:

Polystyrene, especially expandable polystyrene, is made fire-retardant by the use of halogen-containing additives such as hexabromocyclododecane(HBCD), 2,3-dimethy-2,3-diphenylbutane is commonly used as synergistic co-agents to reduce the amount of HBCD required. 2,3-dimethy-2,3-diphenylbutane is well suited to this application as it has sufficient thermal stability at the temperature used in suspension polymerization. The addition of 2,3-dimethy-2,3-diphenylbutane to styrene monomer immediately before the onset of polymerization will not affect the polymerization process.

Specification

Item	Specification
Appearance	White to yellowish powder
Melting point	100-115°C
Purity (HPLC)	96% min

Application:

It imparts excellent light stability in polyolefin (PP, PE, PVC), PA, polyacetals and polyester. It shows excellent compatibility and high resistance to extraction. When be used with other HALS together shows excellent synergistic effect. In addition, it can be used in food package materials.