

A Modified Polypropylene-based Cooling Tower Filler and Its Production Process

The present invention discloses a modified polypropylene-based cooling tower filler. The modified polypropylene-based cooling tower fillers comprise the following components: polypropylene: 100 parts, ethylene-propylene copolymer (EAA): 10 parts, polypropylene grafted maleic anhydride (PP-g-MAH): 10 parts, initiator: 0.05-2 Parts, modifier: 2-20 parts, antioxidant: 0.1-2 parts, carbon material: 5-15 parts, fiber: 5-20 parts, filler: 10-30 parts. The modified polypropylene-based cooling tower fillers have an efficient heat dissipation function. The modified cooling tower fillers of the present invention enable water to spread on the surface to form a uniform film, greatly improving the cooling efficiency per unit area. The present invention also presents good high-temperature resistance; it can be used to cool water at a higher temperature, thereby improving the heat dissipation efficiency.

(Fig. 1)