

Synthesis and Characterization of UV-curable Poly(epoxy)imides-acrylate containing Vinyl Phosphoric Acid

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It was newly synthesized UV-curable Poly(epoxy)imides-acrylate containing Vinyl Phosphoric Acid (VPA). This material was high thermal stabilities and good adhesion properties.

The structures of Poly(epoxy)imides-acrylate containing VPA were confirmed by FT-IR.

And thermal properties were synthesized by TGA and DSC. It was found that Poly (epoxy)imides-acrylate containing VPA were measured excellent thermal stability at a given temperature in the nitrogen atmosphere.

According to the adhesion properties, It was measured that the adhesion force of Poly (epoxy)imides-acrylate containing VPA film onto stainless steel substrates.