

عنوان مقاله:

Epoxy Terminated Polybutadiene Rubber Modified Epoxy Resin as a Surface Coating Resin

محل انتشار:

سومین کنگره بین المللی رنگ و پوشش (سال: 1388)

تعداد صفحات اصل مقاله: 14

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خلاصه مقاله:

Hydroxyl-terminated polybutadiene was functionalized with carboxyl groups and employed in preparation of a block copolymer of polybutadiene and epoxy resin. The epoxy terminated polybutadiene (ETPB) was characterized by Fourier transform infrared (FTIR) spectroscopy. The physico-chemical characterization of the synthesized resin was done by standard methods. Cured blends of epoxy resin and hydroxyl-terminated polybutadiene (HTPB) or epoxy-terminated polybutadiene were characterized by thermo-gravimetric analysis (TGA). In order to investigate the effect of ETPB on the properties of epoxy resins which are used in coatings, the modified epoxy resin with ETPB and epoxy resin was applied by application bar (without any pigment or solvent) on tests plates. The effect of ETPB on the .hysicomechanical performance and chemical resistance of coating were evaluated by standard methods

کلمات کلیدی:

Epoxy, Toughening, Hydroxyl Terminated Polybutadiene, Rubber

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