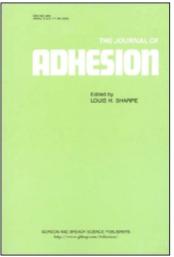
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Polyacrylate Core-Shell Particles—Toughened Epoxy Adhesives

Li Yiming, Wang Xiaomin, Bai Gongjian and Yu Yunzhao

(Institute of chemistry, Academia Sinica)

Abstract

Polybutylacrylate (PBA)/polymethylmethacrylate (PMMA) core-shell particles were studied and used as a toughener for epoxy adhesives in this work.

The morphology, glass transation temperature and mechanical properties of the toughened epoxy adhesives were investigated by means of SEM, DSC, DMA and mechanical testing. It is found that the core-shell particle modified epoxy adhesives have great improvements in toughness and other mechanical properties without remarkable loss in thermal resistance. They are effective tougheners for epoxy adhesives.

KEY WORDS Epoxy Adhesives, Core-Shell Particle, Toughener.

Studies on Toxicity of New PU Adhesive for Foods Packaging

Yin Ming

(No. 59 Institute China Ordnance Industry)

Abstract

This paper points out the importance of studies on the material toxicity for foods packaging, introduces the technical plan of the studies on the toxicity of double component PU adhesive. It also introduces the object, the material, the method and the results of the toxicology tests, as well as total evaluation in detail. Finally, it is concluded that the PU adhesive is not toxic and can not cause cancer or distortion.

KEY WORDS Adhesive, Polyurethane, Foods Packaging, Toxicity, Toxicology.

Investigation on the Adhesive Property for LWY-II High Speed Adhesive Filter Cigarette Holder

Ye Chuping, Li Wenyu, Chen Fuhe and He Tiansheng

(Hebei University) (Lian Yun Gang City Sanitation and Antiepidemic Station)

Abstract

It was shown by modern analytical methods (TEM-100SX, DSC) that the adhesive for LWY-II high speed adhesion filter cigarette holder has a good freeze resistance. The experimental results proved that this adhesive has a high stability, good adhesion, resistance to water, and is non-poisonous to humans.

KEY WORDS Adhesive, Resistance Freeze, Non-Poisonous, stability.

The Sheath Interlink Strength Research for Copper Phosphate Adhesive

Tao Daoxian, Li Zhuang, Xu Jili, Guo Xianzhong, Shen Jing, Li Wenjun and Jin Yi

(Beijing University of Science and Technology)

Abstract

The linear expansion coefficient of two kinds of inorganic adhesives, copper phosphate adhesive and the same adhesive with 10% added Al_2O_3 , Cr_2O_3 as filler has been measured with a thermo-expansion device. It has been found that the main tendency of inorganic adhesives from ambient temperature to 720°C was volume contraction, compared with DTA-TG curve, it was found that the high sheath interlink strength of copper phosphate resulted from the force of chemical bond, interacting molecule and mechanical interlink formed in adhering processing. Some information can be found in this thesis for higher adhesive strength of copper phosphate adhesive.

KEY WORDS Copper Phosphate, Thermo-Contraction, Adhesive Strength.

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NBR-Toughened Bismaleimide Structural Adhesive

Guan Changshen and Zhang Bin

(the Institute of Petrochemistry, Heilongjian Academy of Sciences)

Abstract

This paper introduces a new heat-resistance structural adhesive: NBR-toughened bismaleimide (BMI) adhesive.

The adhesive exhibits excellent bonding strength. It is easy to apply, its cost is lower than polyimide adhesives, and its curing temperature is also lower.

The adhesive can be used at $-55 \sim 300^{\circ}$ C.

KEY WORDS Heat-Resistant Structural Adhesive, Bismaleimide, NBR-Rubber.

Studies and Application of the Adhesive of the Metal Structure with Fluctuating Loads

Zhou Yunlin and Hao Sulan

(The Repair and Construction Company, Anshan Iron and Steel Complex)

Abstract

The use of adhesives for bonding the same and different kinds of metal materials has become more and more widespread, and as a complement to the techniques of riveting and welding, as well as for mechanical installation. From the adhesive mechanism of the modified epoxy resin, in this paper we expound the screening of the main agent and modified agent, the properties of the physical and mechanical properties for the structural adhesive, its application and so forth.

A series of tests have shown that the use of CTBN and DMP30 is the most important condition for the modification of the epoxy structure adhesive.

Studies on Graft Copolymerization of MMA, BA with SBS and Its Adhesive Properties

Wang Liya, Rong Rubin, Chen Lianxi, Wan Huijie and Yu Zongyuan

(Hubei Research Institute of Chemistry)

Abstract

In this paper, the graft copolymerization of Methyl methacrylate (MMA) and Butyl methacrylate (BA) with SBS and its adhesive properties were investigated. The influence on graft copolymerization of monomer concentrations, initiator concentrations, reaction temperature and time were discussed. The structural analysis of purified graft copolymers (PBA-g-SBS-g-PMMA) was determined by GPC and IR. These polymers possessed such advantages as high initial adhesion, high final adhesive strength, low toxicity and low melting temperature. There is no need for a low molecular weight viscosity increaser in using this adhesive.

KEY WORDS Tribasic Graft Copolymerization, GPC, IR, Adhesion Properties, Adhesive.

Study of High Furfural Alcohol Modified UF Resin

Ren Zengmao and Ye Runxi

(Gan Su Friction & Sealing Material Factory)

Abstract

This paper mainly introduces the reaction principle, the technological process of high furfural alcohol modified UF resin, and the properties of modified resin and sand strength. In addition, the analysis of the properties and applications of the resin are also given.

KEY WORDS Furfural Alcohol, Modified, Urea Resin.

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