

表1 氯醚橡胶的 T_g $^{\circ}\text{C}$

牌号	生胶		硫化胶 (实测值)
	实测值	给出值 ¹⁾	
H65	-26.6	-21	-27.7
H1100	-30.5	-26	-30.1
C2000L	-44.7	-41	-43.6
T3100	-41.9	-36	-41.5

注：1) 日本瑞翁公司产品指南给出值。

橡胶的依据。

3 结论

(1) 采用FTIR法, 依据Beer-Lambert定律计算 $A_{\text{C-Cl}}/A_{\text{C-O-C}}$, 可以准确鉴别氯醚橡胶生胶类型。

(2) 采用DSC法测定的氯醚橡胶生胶和硫化胶 T_g 基本相同, 可以以此作为鉴别氯醚橡胶的依据。

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Analysis of Epichlorohydrin Rubber Type by FTIR and DSC

Yao Yuhong^{1,2}, Xu Yaodong^{1,2}, Tian Youfeng^{1,2}, Yang Dengji¹, He Guangde^{1,2}, Chen Jinyang^{1,2}

(1. Anhui Zhongding Seals Co., Ltd., Ningguo 242300, China; 2. Anhui High Performance Rubber Materials & Products Provincial Laboratory, Ningguo 242300, China)

Abstract: The raw rubber and vulcanizate of epichlorohydrin rubber (ECO) were characterized by infrared spectroscopy (FTIR) and differential scanning calorimetry (DSC). The results showed that FTIR could be used for accurate identification of ECO type based on the Beer-Lambert law. DSC results showed that the T_g of raw ECO rubber and vulcanized ECO rubber were basically the same, which could also be used for identification of epichlorohydrin rubber.

Keywords: epichlorohydrin rubber; infrared spectroscopy; differential scanning calorimetry

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谢立