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## Development of Environmentally Friendly Coating Material for LSZH Cable Sheath

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**Abstract:** In this study, the environmentally friendly coating material for low smoke zero halogen (LSZH) cable was developed. The matrix material was a blend of low density polyethylene (LDPE), ethylene-vinyl acetate copolymer (EVA) and ethylene propylene diene monomer rubber (EPDM) at the blending ratio of 36/54/10. The flame retardant system was hydroxide aluminum/inorganic filler Create-E/magnesium hydroxide with the ratio of 60/30/60.8 parts of maleic anhydride grafted EVA (EVA-g-MAH) were applied as the compatibilizer. The experimental test results on the cable sheathing material showed its physical properties, flame retardant properties and electrical properties reached the application requirements. The coating material was environmentally friendly and the finished cable product showed good performance.

**Keywords:** cable sheathing material; environmentally friendly; low smoke; halogen-free; flame retardant; low density polyethylene; ethylene-vinyl acetate copolymer; EPDM rubber



### 日本东海炭素公司收购加拿大坎卡博公司

日前, 日本东海炭素公司耗资1.9亿加元完成了对加拿大坎卡博公司的收购, 实现了无缝过渡, 保留原坎卡博公司所有员工, 继续生产Thermax牌热裂法炭黑。原坎卡博公司董事长表示, 东海炭素在炭黑行业领先, 高度关注产品研究和开发工作, Thermax热裂法炭黑的生产和应用技术将会达到一个新的水平。

加拿大坎卡博公司是世界最大的热裂法炭黑生产商, 目前年产能为4.5万t, 占全球热裂法炭黑市场的50%份额。热裂法炭黑是以北美地区廉价的天然气和页岩气为原料, 经隔绝空

气高温热解而成。坎卡博公司充分利用生产余热, 建设了41 MW发电设备, 所生产的电力出售给当地电网, 在创收的同时减少了温室气体排放。

东海炭素公司是世界第七大炭黑生产商, 炭黑年产能达50万t, 在中国、日本和泰国均设有工厂。目前, 除东海炭素公司外, 全球热裂法炭黑主要生产商还有德国欧利隆工程炭公司和俄罗斯佩日博特卡(Pereabotka)天然气工业公司。

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