

**EFFECT OF ELECTRICAL INSULATION BREAKDOWN VOLTAGE OF XLPE WITH
ADDED POLYPROPYLENE 30% FIBER GLASS FILLER**

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ABSTRACT

Cross-linked polyethylene (XLPE) has become the widely preferred cable insulation for medium and high voltage power cable. The insulation system provides high performance in operation and high strength of dielectric constant, as well as lower environmental and maintenance requirement compared to other PVC insulation system. Even though XLPE has good insulation in power cable, breakdown in power cable still cannot be avoided. Thus this paper has been made to investigate the electrical properties of XLPE with added polypropylene 30% fiberglass filler.

Keywords: Crosslinked polyethylene (XLPE) ; High voltage; polypropylene 30% fiberglass

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