A.9.3 The influence of crosslinking on the void formation in XLPE insulation.
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By the means microscopic method we have determined content of voids and their size distribution in XLPE insulation of 22 kV cables crosslinking in water steam and in nitrogen atmosphere. Formation of voids in insulation crosslinked in nitrogen atmosphere can be explained by the creation of water in situ at dicumyl peroxide decomposition. This possibility follows from the experimental results of the decomposition of dicumyl peroxide in PE-LD in nitrogen atmosphere at the temperature range of 260-300°C.