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Insulation Resistance Profiles

Insulation Resistance Profiles of healthy insulation systems appear as an inverse exponential function in form because there are four primary components of the current, two of which decrease exponentially. These four components are: Surface Leakage, Geometric Capacitance, Conductance, and Absorption Current. These components are affected in different ways by the presence of moisture, contamination, embrittlement, temperature, and the insulation condition itself. See Figure 2 in *Insulation Resistance Profile (IRP) and its Use for Assessing Insulation Systems at* http://www.pdma.com/pdfs/Articles/Insulation_Resistance_Profile_ISEI_Conference_2010.pdf.

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