NSF/ANSI 14 – 2007

Plastics piping system components
and related materials

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5.7 Chlorine resistance – Dependent Transfer Listing requirements

In order to qualify a pipe made from a material that already has a chlorine resistance classification – Dependent Transfer Listing, the following minimum requirements shall be met for each pipe which is comprised of a different color in the polymer matrix yet made from that classified material.

Note - This requirement does not apply to changes in color of an external, coextruded polymer layer which is separate and distinct from the pipe polymer matrix.

– Three (3) data points at the highest stress and highest temperature conditions shall be used as for the original data set;

– Two (2) data points at the second highest stress and the highest temperature conditions shall be used as for the original data set;

– The original material equation shall be used to calculate the expected failure time (EFT) for the temperature/stress conditions specified above;

– The 95% lower prediction limit (LPL) shall also be calculated for the original material data at these temperature/stress conditions;

– All five (5) data points (fail times) shall meet or exceed the LPL for that condition;

– At least two (2) of the data points shall meet or exceed the EFT. These two points shall be any combination within the two test conditions; and

– Five (5) data points shall be added to the original data set, and all parameters in section 13 of the ASTM F 2023 test method shall be recalculated. The new values shall comply with the requirements of ASTM F 876.