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Durability of Aeroseal Duct Sealant

In accordance with UL 1381 "*Outline of Investigation of Aerosol Duct Sealants*", Aeroseal duct sealant was required to be tested per ASTM Standard E2342-10 "*Standard Test Method for Durability Testing of Duct Sealants*". The test consisted of blowing heated air into a sealed sheet metal test section combined with a pressure differential test. The tests were conducted on the sealed test section for more than 480 hrs. The air temperature was required to be controlled between 180-200° F for the duration of the test.

The results of the test were supplied to UL and are below;

Initial leakage flow of test sample before sealing (6/3/13):

$Q_{\text{unsealed}} = 1$ CFM/inch of perimeter of test section to collar connection @ 25Pa

Initial leakage of test sample after sealing (6/3/13):

$Q_{\text{initial}} = 0.212$ CFM/inch of perimeter of test section to collar connection @ 25Pa

Final leakage of test sealed sample (9/9/13):

$Q_{\text{final}} < 110\%$ of Q_{initial} @ 25Pa

The sealed test section exceeded the ASTM E2342-10 durability test requirement component per UL Standard 1381.