Gel-Pak®
Protecting the World's Valuable Devices

GEL-FILM OUTGASSING TOTAL MASS LOSS

Technical Datasheet

METHOD SUMMARY

The specimen is placed on a pre-weighed substrate. The testing procedure drives volatile compounds from the sample matrix into the atmosphere above the sample, called the headspace and collected on plates. After testing the specimen, the collector plates were re-weighed. Total Mass Loss (TML) percentages are then determined.

TEST STANDARD

ASTM-E-595-07 – Materials to be tested for Outgassing and Total Mass Loss.

TEST METHOD AND RESULTS

Gel-Pak proprietary PF X0 and DGL X0/XL film tested in a sealed vacuum chamber 125°C for 24 hours. Two parameters are measured: Total Mass Loss (TML) and Collected Volatile Condensable Materials (CVCM). After the specimen was weighed to determine the TML, Water Vapor Regained (WVR) was determined by conditioning the specimen at 23°C with 50% relative humidity for 24 hours. The specimen was again weighed and the WVR was calculated. The results are summarized as follows:

Material	Total Mass Loss (% TML)	Collected Volatile Condensable Material (% CVCM)	Water Vapor Regain (% WVR)
PF X0	1.15	0.46	0.01
WF X0	1.15	0.46	0.01
DGL X0/XL	0.06	0.01	<0.01

Analysis performed by Trace Laboratories, independent laboratory, July 2011

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