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# OUTGASSING AND IONICS TEST REPORT FOR POLYSIM 509, INHERENTLY STATIC DISSIPATIVE POLYETHER TPU ALLOY

BF Goodrich Company ANALYTICAL REPORT / Ion Chromatography Laboratory

TITLE: EXTRACTABLE ANIONS AND OFF-GASES FROM POLYMER SHEET

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RESULTS
EXTRACTABLE ANIONS
ng/g (ppb) of extracted water

| SAMPLE | F- | Cl- | BR- | NO3- | HPO4= | SO4- | Wt. (g) |
|---|---|---|---|---|---|---|---|
| 509 | 1 | 2 <2 | 2 | 66 | 1 1.749 | | |
| Rerun | 1 | <2 | <2 | 3 | 62 | 1 | 1.802 |

EXPERIMENTAL CONDITIONS
8 cm2 extracted in 10 mL of water for 1 hour at 80˚/C

VOLATILE ORGANICS
Micro g off-gases/gram sample

| SAMPLE | MMA | TOLUENE | STYRENE | Total |
|---|---|---|---|---|
| 509 | 0.04 | <0.02 | <0.02 | 3.97 |

EXPERIMENTAL CONDITIONS
Each sample (500 mg in a 20 cc vial) was heated for 60 minutes at 85˚ C in a Tekmar 7000 headspace analyzer. An aliquot of the headspace was then automatically removed and injected into a Hewlett Packard 5890 Series II GC equipped with a flame ionization detector. A response factor for decane was measured and used to determine the amount of all three organic compounds and the total amount in the headspace. Identification of each compound was by retention time alone.
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