Pyrolysis products of silicone seal

Application Note

Materials Testing & Research

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Introduction
Use GC with an Agilent VF-5ms to analyze the pyrolysis products of a silicone seal.
Conditions

Technique: GC
Column: Agilent VF-5ms, 0.25 mm x 60 m fused silica (df = 1.0 μm) (Part No. CP8949)
Temperature: 60 °C , 1 min → 320 °C, 8 °C/min, 75 min
Carrier Gas: He, 173 kPa
Pyrolysis: at 550 °C
Injector: Split injection, 1:100
Detector: MS

(cyclic) Siloxane degradation products

Low background even at 320 °C

0 100 minutes