

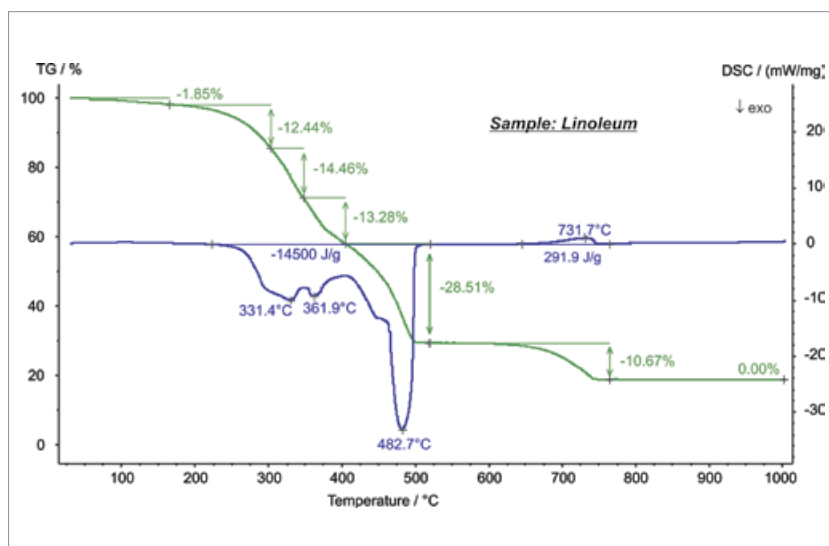
APPLICATION SHEET

ORGANICS – BUILDING MATERIALS

LINOLEUM

The building material linoleum already invented in 1860 is often found as floor covering. It is robust, non-allergenic and well insulating even at small thickness. Linoleum is predominantly made from solidified linseed oil in combination of wood flour or cork dust. Pigments may be added to the

materials used, too. Linoleum as a floor covering has been largely replaced with PVC which has similar properties of flexibility and durability but is less flammable. However, PVC releases chlorine containing combustion products some of which are highly toxic.



Instrument

STA 449 **F3** Jupiter®

Test Conditions

Temperature range	RT ... 1000°C
Heating/cooling rates	10 K/min
Atmosphere	synthetic air (70 ml/min)
Sample mass	5.52 mg
Crucible	Pt
Sensor	TG-DSC type S

Results

The above figure shows the TG results of four different SiC qualities. The "new" SiC sample depicts no mass loss. At the recycled and used SiC samples some organic impurities remained which were driven out at higher temperatures. The used SiC showed the highest mass loss due to the largest impurity amount.