

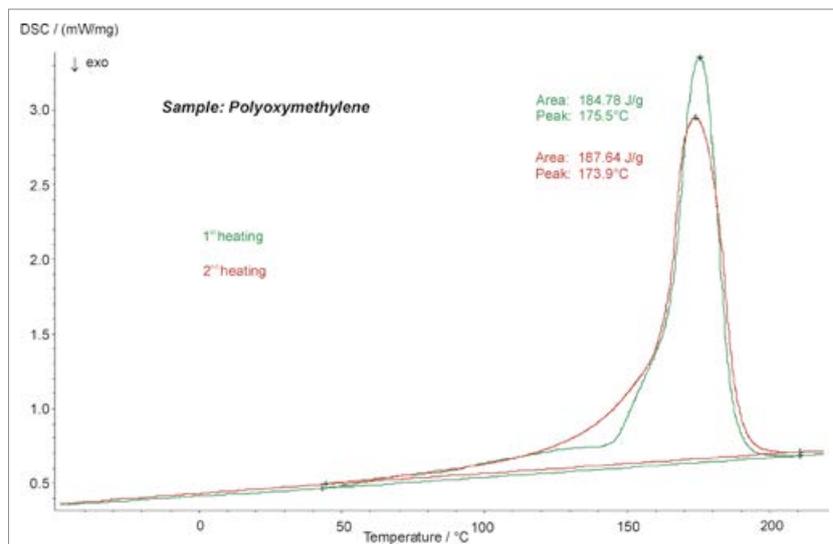
APPLICATION SHEET

POLYMERS – POLYMER MANUFACTURING

POLYOXYMETHYLENE POM

Polyoxymethylene, also known as polyacetal or polyformaldehyde, is a thermoplastic with good physical and processing properties. It has good mechanical properties with respect to stiffness, fatigue endurance and creep resis-

tance and a reasonably high impact strength. It is therefore widely used as engineering plastic for manufacturing gears, bushings and other mechanical parts.



Instrument

DSC 200 **F3** Maia®

Test Conditions

Temperature range	-50 ... 220°C
Heating rates	20 K/min
Atmosphere	Nitrogen at 20 ml/min
Sample mass	13.51 mg
Crucible	Al ₂ O ₃

Results

An endothermic peak was detected in both heatings at 175.5°C (1st heating) / 173.9°C (2nd heating). It is due to melting of the sample. The heat of fusion is quite high (approx. 185 J/g) indicating a high crystallinity degree of the sample. No other effects were detected between -50°C and 220°C.