

# APPLICATION SHEET

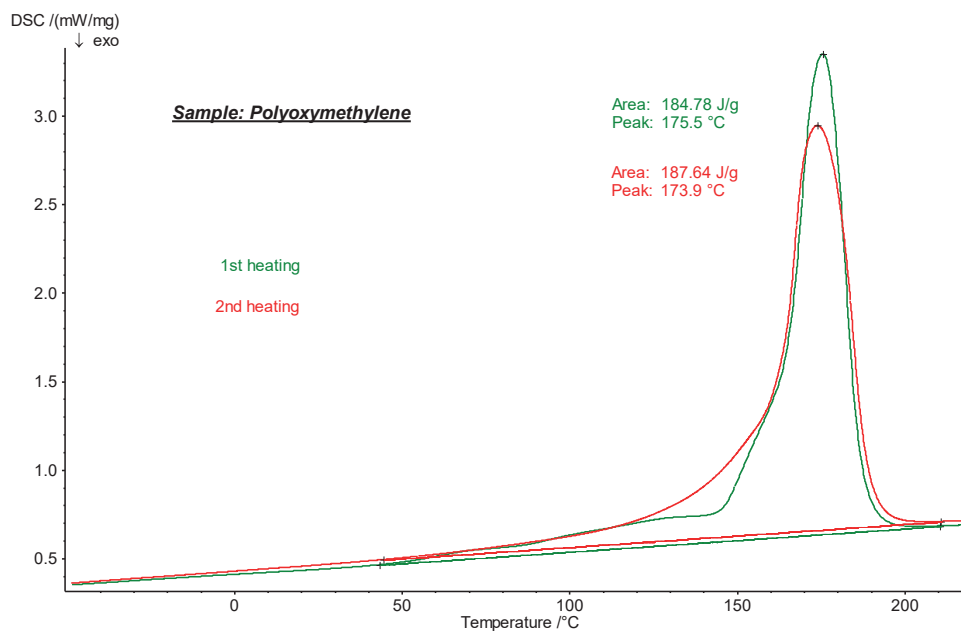
Polymers · Polymer Manufacturing  
DSC 214 *Polyma*

## Polyoxymethylene POM

### Introduction

Polyetherimide is an aromatic, amorphous thermoplastic containing both ether links and imide groups. It has good fire resistance and good thermal stability. Furthermore, it

is chemical resistant and features high dielectric strength and extremely low smoke generation. It is often used for heat-resistant products such as in microwave ovens and circuit boards.



### Test Conditions

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

### Test Results

An endothermic peak was detected in both heatings at 175.5°C (1<sup>st</sup> heating) / 173.9°C (2<sup>nd</sup> heating) that 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.