

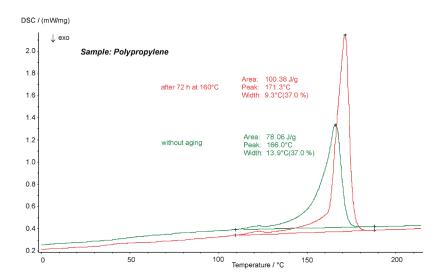


## Polypropylene

## Introduction

Polypropylene (PP) is a thermoplastic polymer used in a wide variety of applications, including food packaging, textiles, laboratory equipment, automotive components,

and polymer cash cards. An additional polymer made of the monomer propylene is unusually resistant to many chemical solvents, bases and acids.



## **Test Conditions**

Temperature range: -80 ... 220°C Heating rate: 10 K/min Atmosphere:

Sample mass (after aging): Sample mass (without aging):

Crucible:

Nitrogen at 20 ml/min

7.42 mg 7.86 mg

Al, pierced lid

## **Test Results**

During aging at 160°C, the small crystallites of polypropylene can melt and then reorganize into bigger crystallites. This results in:

- The temperature of the melting peak is shifted to higher temperatures.
- The width of the melting peak after aging is smaller than without aging.
- The peak area (heat of fusion) increased during aging.

