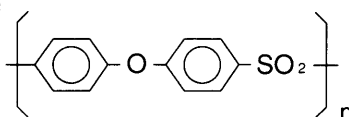


DMA No. 13 SEP.1991

Dynamic Viscoelastic Data of Polyethersulfon

1. Sample Polyethersulfon : PES

2. Chemical Structure



3. Thermal History 300 press film. After annealed at 129 for 30 min. allowed to cool to room temperature.

4. Instruments SDM5600H Rheol. Station
DMS110 Dynamic Mechanical Spectrometer

5. Conditions Deformation mode : Bending mode
Sample Size : 20.00(l) × 9.90(w) × 0.65(t)mm
Temperature Range : -110 ~ 290
Heating Rate : 2K/min
Atmosphere : N₂
Frequency : 1,2,5,10Hz

6. Transition temperature and activation energy based on tanδ

	Transition Temperature ()	ΔEa (kJ/mol)	Comments
α Transition	232 (1Hz)	767	Glass Transition
β Transition	-	-	
γ Transition	-52 (1Hz)	158	

7. Thermal Analysis Data

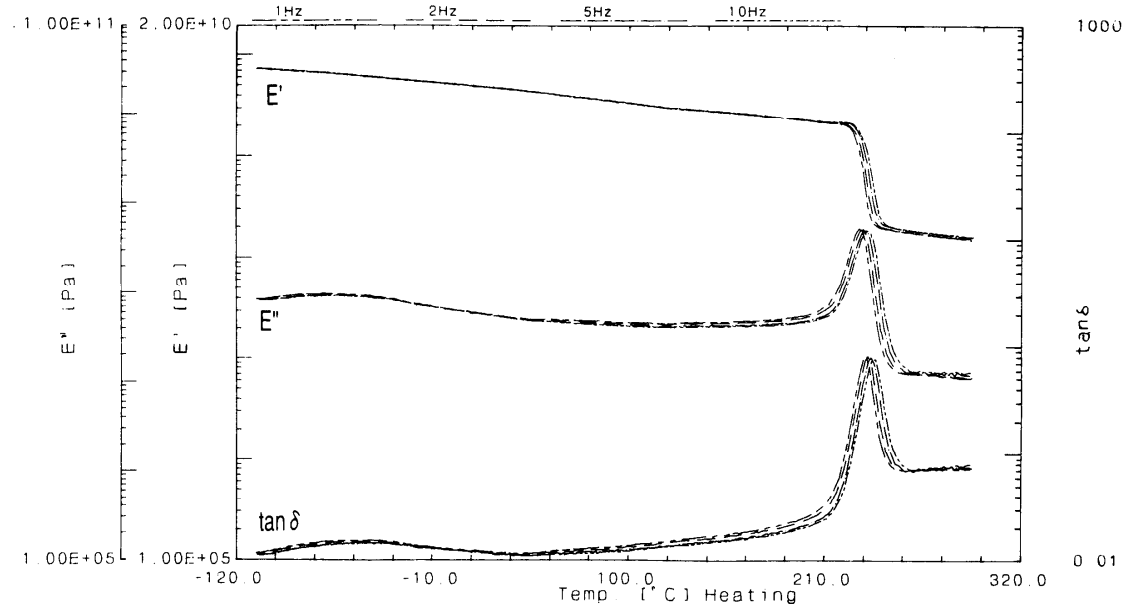
T_g : 222.5 , ΔC_p : 0.222 J/deg·g , DSC 10K/min

8. Literature (Concerning this sample)

H.A.Schneider etal, Polymer, 28, 132(1987)

DMS

Name: Sample: PES
 Date: 91/09/19 12:30 Temp. mode: Ramp
 Comment: 2°C/min Deform: Flexure rec
 1*w*t: 20.000* 9.900* 0.650 mm
 Frequency: 1 ~ 10 Hz



DMS

Name: Sample: PES
 Date: 91/09/19 12:30 Temp. mode: Ramp
 Comment: 2°C/min Deform: Flexure rec
 1*w*t: 20.000* 9.900* 0.650 mm
 Frequency: 1 ~ 10 Hz

