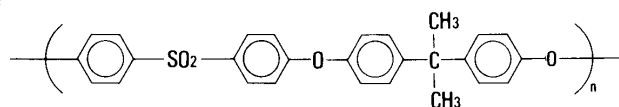


DMA No. 3 MAY.1989 Dynamic Viscoelastic Data of Polysulfon

1. Sample Polysulfon
 (Brand Name : U-Del)

2. Chemical Structure



3. Thermal History Press film ; after pressing at 260 , quenched in ice water.
 Dried in a vacuum at room temperature for 1 week.

4. Instruments SDM5500 Rheol. Station
 DMS100 Dynamic Mechanical Spectrometer

5. Conditions Deformation mode : Bending mode
 Sample Size : 20.00(l) × 10.00(w) × 1.310(t)mm
 Temperature Range : -150 ~ 250
 Heating Rate : 2K/min
 Atmosphere : N₂
 Frequency : 0.5,1,2,5,10Hz

6. Transition temperature and activation energy based on tanδ

	Transition Temperature ()	ΔEa (kJ/mol)	Comments
α Transition	187 (1Hz)	732	Glass Transition
β Transition	75 (1Hz)	-	
γ Transition	-111 (1Hz)	44	

7. Thermal Analysis Data

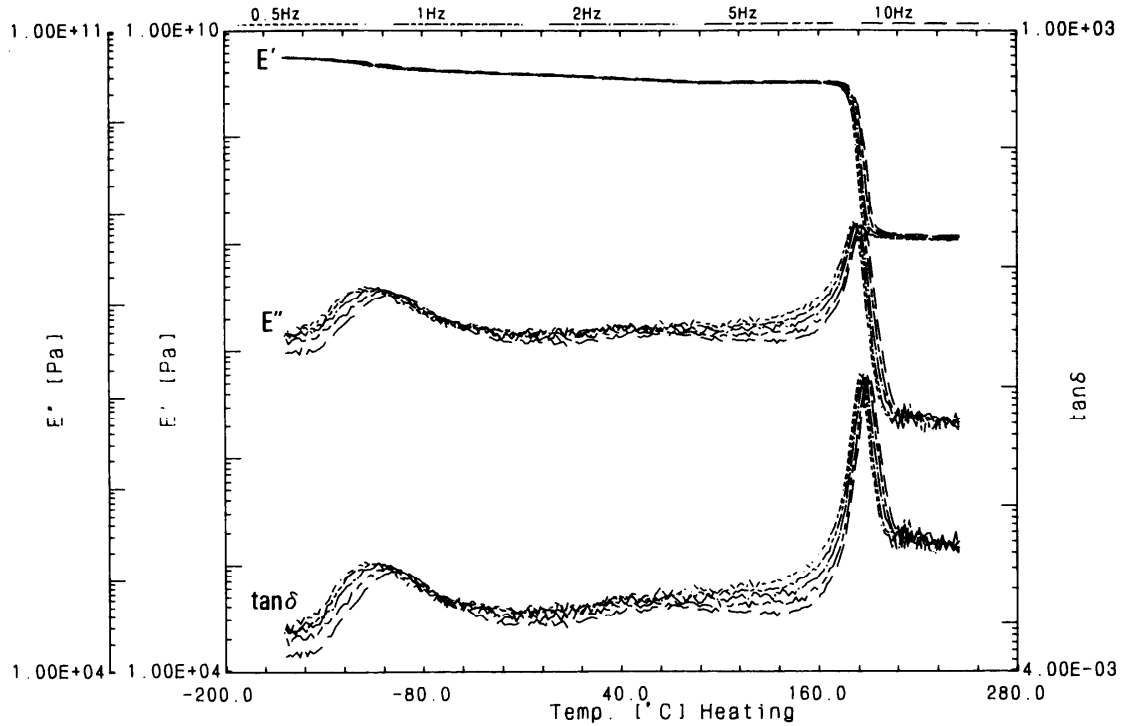
T_g : 183.7 , ΔC_p : 0.230 J /deg• g, DSC 10K/min

8. Literature (Concerning this sample)

T.Sasuga etal., Polymer, 28, 236(1987)

DMS

Name: Sample: PSF
 Date: 89/04/15 14:58 Temp. mode: Ramp
 Comment: 2°C/min Deform: Flexure rec.
 1*w*t: 20.000* 6.200* 1.325 mm
 Frequency: 0.5 ~ 10 Hz



DMS

Name: Sample: PSF
 Date: 89/04/15 14:58 Temp. mode: Ramp
 Comment: 2°C/min Deform: Flexure rec.
 1*w*t: 20.000* 6.200* 1.325 mm
 Frequency: 0.5 ~ 10 Hz

