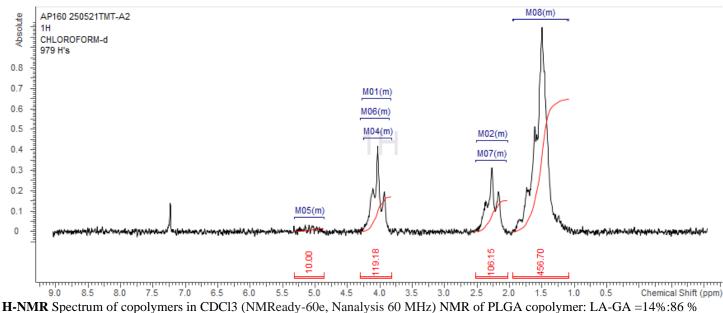
PolySciTech

No. AP322

Certificate of Analysis

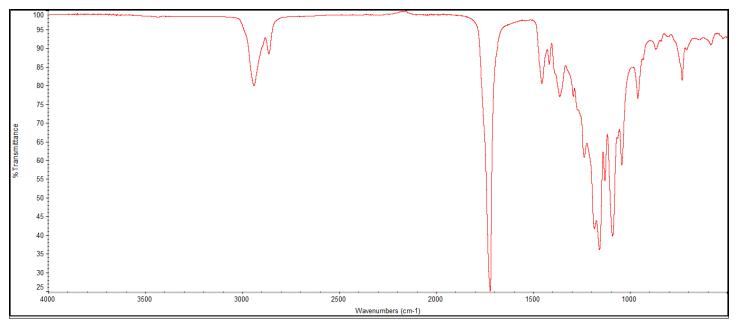
Product Name: Poly(L-lactide-co-caprolactone) copolymer acid endcap (15:85 LA:CL, M_n: 75,000-85,000 Da) (Lot#: 250521TMT-A)

H-NMR

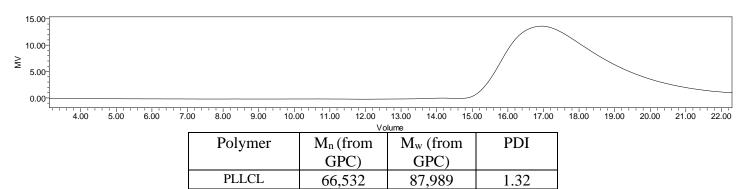


molar ratio (LA:GA 10%:90% w:w)

FTIR

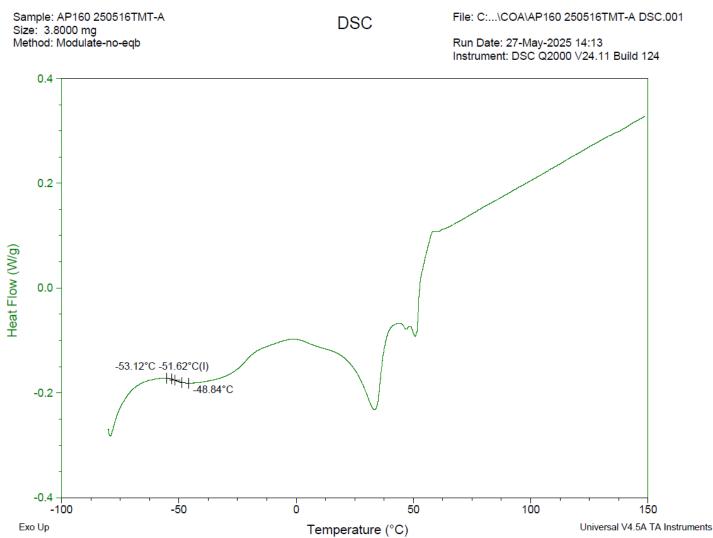


FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode.



GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

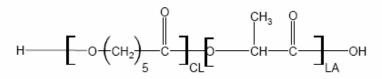
DSC



DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibration 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = -51.62 °C

Inherent Viscosity: 0.381 ± 0.017 dL/g (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25°C.

Structure of copolymers



Approved By: *Amie Tyler* Quality Manager