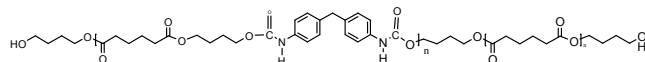


Poly urethane based on Adipic acid, Butane diol and 4, 4'-Methylenebis (phenyl isocyanate) MDI-based polyurethanes

Structure:



Composition:

Mw x 10 ³	Mw/Mn (PDI)	Composition Adipic acid: Butanediol:MDI	Tg (°C)
6.0	1.4	1:1:1	-15.7

Synthesis Procedure:

Polyurethane is prepared in two-step procedure A: oligomerization of Adipic acid with Butane diol and then B reaction with MDI.

Characterization:

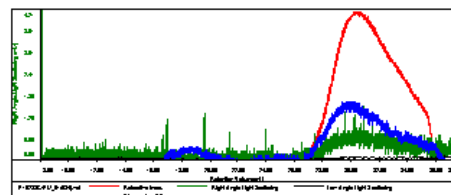
An aliquot of the copolymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The chemical composition was verified by ^1H -NMR spectroscopy, which is run in deuterated chloroform at 500MHz. The glass-transition temperature was measured by DSC.

Solubility:

Chloroform (Y)	THF (Y)	DMF (Y)	DMSO (Y)
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Figure: SEC profile of the polyurethane

Concentration (mg/mL)	0.5951
Sample divide (mL/g)	0.0001
Method file	pestReplicates08062008.m
Column list	3x PL T1 (500m)
Bot unit	THF



DSC Thermogram:

