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## ABBREVIATIONS

NMR	=	Nuclear Magnetic Resonance
FT-IR	=	Fourier Transform Infrared Spectroscopy
GPC	=	Gel Permeation Chromatography
DSC	=	Differential Scanning Calorimetry
SEM	=	Scanning Electron Microscopy
TGA	=	Thermal Gravimetric Analysis
PDMS	=	Polydimethylsiloxane
D <sub>4</sub>	=	1, 1, 3, 3-Octamethylcyclotetrasiloxane
PEG	=	Poly(ethylene glycol)
CMC	=	Carboxymethylchitosan
HDI	=	1, 6-Hexamethylene diisocyanate
HDA	=	Hexamethylene-1, 6-di-(aminocarboxysulfonate)
THF	=	Tetrahydrofuran
MPa	=	Megapascal
semi-IPN	=	semi-Interpenetrating Polymer Networks