

List of Symbols Used in this Dissertation

HM	= Hydrogen-Montmorillonite
KM	= Potassium-Montmorillonite
CuM	= Copper-Montmorillonite
TU	= Thiourea
MMA	= Methyl methacrylate
ACN	= Acrylonitrile
MACN	= Methacrylonitrile
HPMA	= Hydroxy Propyl Methacrylate
PMMA	= Poly(Methyl methacrylate)
PHPMA	= Poly (Hydroxy Propyl Methacrylate)
DMF	= Dimethyl Formamide
THF	= Tetrahydro Furan
\bar{M}_n	= Number Average Molecular Weight
\bar{M}_w	= Weight Average Molecular Weight
\bar{M}_v	= Viscosity Average Molecular Weight
\bar{N}_n	= Number Average Moles
C_s	= Transfer Constant
n_{sp}	= Specific Viscosity
$[\eta]$	= Intrinsic Viscosity
μ	= Micron
v	= Scan Rate
V	= Volt
i_c	= Cathodic Current
i_a	= Anodic Current
A	= Ampere

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R_p	= Rate of Polymerization
k	= Rate Constant
k_p	= Rate Constant for Propagation
k_t	= Rate Constant for Termination
k_d	= Rate Constant for the Initiator Reaction
R_i	= Rate of Initiation
E_a	= Overall Activation Energy
E_p	= Activation Energy for Propagation
E_t	= Activation Energy for Termination
E_d	= Activation Energy for the Initiator Reaction
R	= Gas Constant
T	= Temperature
h	= Planck's Constant
S^\ddagger	= Entropy of Activation
G^\ddagger	= Free Energy of Activation
H^\ddagger	= Enthalpy of Activation
M	= Monomer
\overline{DP}_n	= Degree of Polymerization
I	= Initiator
s	= Strong
m	= Medium
w	= Weak
b	= Broad
sh	= Shoulder
f	= Efficiency
r	= Reactivity Ratio
T_g	= Glass Transition Temperature
T_m	= Melting Temperature