

## LIST OF SYMBOL AND ABBREVIATION

AlEt <sub>2</sub> Cl	Diethylaluminium chloride
CI[1]	Chromium(III) acetate, [Cr <sub>3</sub> O(CH <sub>3</sub> CO <sub>2</sub> ) <sub>6</sub> .3H <sub>2</sub> O]NO <sub>3</sub> .CH <sub>3</sub> CO <sub>2</sub> H
CI[2]	Chromium(III)-iron(III) acetate (2:1), [Cr <sub>2</sub> FeO(CH <sub>3</sub> CO <sub>2</sub> ) <sub>6</sub> .3H <sub>2</sub> O]NO <sub>3</sub> .CH <sub>3</sub> CO <sub>2</sub> H
CI[3]	Chromium(III)-iron(III) acetate (1:2), [Fe <sub>2</sub> CrO(CH <sub>3</sub> CO <sub>2</sub> ) <sub>6</sub> .3H <sub>2</sub> O]NO <sub>3</sub> .CH <sub>3</sub> CO <sub>2</sub> H
CI[4]	Iron(III) acetate, [Fe <sub>3</sub> O(CH <sub>3</sub> CO <sub>2</sub> ) <sub>6</sub> .3H <sub>2</sub> O]NO <sub>3</sub> .CH <sub>3</sub> CO <sub>2</sub> H
CI[5]	Chromium(III) benzoate, [Cr <sub>3</sub> O(C <sub>6</sub> H <sub>5</sub> CO <sub>2</sub> ) <sub>6</sub> .3H <sub>2</sub> O]NO <sub>3</sub> .C <sub>6</sub> H <sub>5</sub> CO <sub>2</sub> H
D.A	Drying agent
DSC	Differential scanning calorimetric
DT <sub>P</sub>	Derivative peak temperature
HCl	Hydrochloric acid
HDPE	High density polyethylene
ICP-OES	Inductively coupled plasma optical emission spectrometry
IR	Infrared
KBr	Potassium bromide
KOH	Potassium hydroxide
M.S	Molecular sieves
NaOH	Sodium hydroxide
PE	Polyethylene
SMRCV	Standard Malaysia Rubber Constant Viscosity
TGA	Thermal gravimetric analysis
T <sub>m</sub>	melting point
T <sub>onset</sub>	Onset temperature
UV	Ultraviolet
XRD	X-Ray Diffractometer
ΔH <sub>c</sub>	Enthalpy of crystallization
ΔH <sub>m</sub>	Enthalpy of melting point