

List of Abbreviations

BHMPS	5-tert-butyl-4-hydroxy-2-methyl phenyl sulphide
Binol	1,1'-binaphthalene 2,2' diol
Cp	Cyclopentadienyl
d	Density
DEAC	Diethyl aluminum chloride
DSC	Differential scanning calorimetry
DTA	Differential thermal analysis
EADC	Ethyl aluminum dichloride
EASC	Ethyl aluminum sesquichloride
FAB	Fast atom bombardment
GC	Gas chromatography
GPC	Gel permeation chromatography
HDPE	High density polyethylene
IR	Infra red
LDPE	Low density polyethylene
LLDPE	Linear low density polyethylene
M	Metal
MAO	Methylalumoxane
M_n	Number average molecular weight
M_w	Weight average molecular weight
MWD	Molecular weight distribution
NMR	Nuclear magnetic resonance
PD	Polydispersity
PE	Polyethylene
Ph	Phenyl
PLA	Poly lactides/Poly lactic acid
ROP	Ring opening polymerization
SEC	Size exclusion chromatography

SEM	Scanning electron microscopy
TEAL	Triethyl aluminum
TGA	Thermogravimetric analysis
TIBAO	Tri isobutyl alumoxane
ULMWPE	Ultra low molecular weight polyethylene
X _c	Crystallinity
XRD	X- ray diffraction
Z-N	Ziegler Natta

Note : Commercial / reference sample used in this work corresponds to micronized polyethylene wax samples (MPP 635) obtained as a gift from M/s Micro Powders, Inc. USA. www.micropowders.com