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NOMENCLATURE

Symbol	:	Meaning
ρ	:	Specific gravity
API	:	American petroleum institute
ASTM	:	American society for testing and materials
BET	:	Brunauer-Emmett-Teller
BJH	:	Barrett-Joyner-Halenda
BTEX	:	Benzene, Toluene, Ethylbenzene and Xylene
CSBR	:	Conical spouted bed reactor
DHA	:	Detailed hydrocarbon analyzer
EDX	:	Energy dispersive X-ray spectroscopy
EPS	:	Expandable polystyrene
FA	:	Fly ash
FA-600	:	Fly ash calcined at 600 °C
FA-700	:	Fly ash calcined at 700 °C
FA-800	:	Fly ash calcined at 800 °C
FA-900	:	Fly ash calcined at 900 °C
FAN	:	Untreated or uncalcined fly ash
FBP	:	Final boiling point
FTIR	:	Fourier Transformed Infrared Spectroscopy
GC	:	Gas chromatography
GC-FID	:	Gas chromatography coupled with flame ionization detector
GC-MS	:	Gas chromatography coupled with mass spectrophotometry

GCV	:	Gross calorific value
GOI	:	Government of India
HDPE	:	High-density polyethylene
HPLC	:	High performance liquid chromatography
HR-SEM	:	High resolution scanning Electron Microscope
HR-TEM	:	High resolution transmission electron microscopy
IBP	:	Initial boiling point
LDPE	:	Low-density polyethylene
LLDPE	:	Linear low-density polyethylene
MSW	:	Municipal solid waste
MTPA	:	Million tonnes per annum
NMR	:	Nuclear magnetic resonance spectroscopy
NO _x	:	Nitrogen oxides
PE	:	Polyethylene
PET	:	Polyethylene terephthalate
PLA	:	Poly lactic acid
PP	:	Polypropylene
PS	:	Polystyrene
PUR	:	Polyurethane
PVC	:	Polyvinyl chloride
SEM	:	Scanning Electron Microscope
SO _x	:	Sulphur oxides
T	:	Temperature
TEM	:	Transmission electron microscopy
TG-DTA	:	Thermogravimetry/differential thermal analysis

TPD : Temperature programmed desorption
XRD : X-Ray Diffraction
XRF : X-ray fluorescence
ZSM-5 : Zeolite Socony mobile-5