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Patent Search

Invention Title	A POLY (TRIMETHYLENE TEREPHTHALATE)/POLYPROPYLENE BLEND NANOCOMPOSITE FORMULATION AND A METHOD THEREOF
Publication Number	31/2019
Publication Date	02/08/2019
Publication Type	INA
Application Number	201841003768
Application Filing Date	01/02/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	POLYMER TECHNOLOGY
Classification (IPC)	C08L101/00, C08K7/06

Inventor

Name	Address	Country
Ajitha A.R	International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Priyadarsini Hill (PO), Kottayam, Kerala, 686 560, India	India
Aswathi M.K	International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Priyadarsini Hill (PO), Kottayam, Kerala, 686 560, India	India
Sabu Thomas	International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Priyadarsini Hill (PO), Kottayam, Kerala, 686 560, India	India
Nandakumar Kalarikkal	International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Priyadarsini Hill (PO), Kottayam, Kerala, 686 560, India	India
Lovely P. Mathew	International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Priyadarsini Hill (PO), Kottayam, Kerala, 686 560, India	India
Geethamma V G	International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Priyadarsini Hill (PO), Kottayam, Kerala, 686 560, India	India

Applicant

Name	Address	Country	Nation
Mahatma Gandhi University	Priyadarsini Hills P.O., Kottayam - 686 560, Kerala, India	India	India

Abstract:

The present invention mainly relates to polymer based nanocomposites. In one embodiment, the present invention relates to a method of fabricating poly (Trimethylene terephthalate) /polypropylene blend nanocomposite formulation for EMI Shielding, the method comprising: adding poly (Trimethylene terephthalate) into a mixer at temperature of 230°C for atleast 4 minutes, adding polypropylene blend into the mixer with poly (Trimethylene terephthalate) at a temperature of 230°C for atleast 3 adding multiwalled carbon nanotubes in to the melted poly (Trimethylene terephthalate)/polypropylene blend at a temperature of 230°C for atleast 4 minutes, mixing (Trimethylene terephthalate)/polypropylene and multiwalled carbon nanotubes using a screw speed of 90 rpm in the mixer for approximately 10 minutes in order to uniform composite mixture (PTT/PP/MWCNTs) and moulding the composite mixture (formulation) by a compression moulding at a temperature of approximately 250°C atleast 3 minute at 1Pa pressure.