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New HDPE Composite Material

Tech ID: 10_2552

A new method and material derived from combining fly ash with HDPE. It is commonly known that millions of tons of fly ash is produced worldwide as a waste product from various power plant processes. Researchers from the School of Materials Science & Engineering have developed a method for combining fly ash with recycled polyethylene (HDPE) to provide a new environmentally friendly, engineering grade composite material. The research has shown that by increasing the percentage weight of fly ash with recycled HDPE, the elastic modulus and electrical conductivity of the new material increases, thus creating a new material from recycled products.

Key Benefits

- Environmentally friendly and sustainable applications of waste products
- Light weight material
- Increased elastic modulus
- Increased electric conductivity
- Low cost of production
- Increased rigidity

Applications

- Plastic bags
- Large rubbish bins (for example Council bins)
- Pipes
- Computer housings and electronic devices

Researchers

Associate Professor Sri Bandyopadhyay and Ms Imrana Kabir

Commercial Opportunity

This technology is available as an Easy Access licence to companies and individuals.

Find out more

Please contact Tom Dobbie, Business Development Manager
NewSouth Innovations
t.dobbie@nsinnovations.com.au | Tel: +61 2 9385 7734

Contact NewSouth Innovations



NewSouth
Innovations

NewSouth Innovations Pty Limited

University of New South Wales, Sydney, Australia

Enquiries: info@nsinnovations.com.au

T: +61 2 9385 5008

www.nsinnovations.com.au