



For Immediate release

PRESS RELEASE

STEER Unveils Omega Platform Technology for processing 'Continuous Glass Fiber Thermoplastics' compounds

Bengaluru, India, February 06, 2015: STEER, at **Plast India** today announced that its Application Development Center (ADC), successfully developed a process to produce Continuous Glass Fiber Thermoplastics (CGFT) on its flagship **Omega** platform that deploys its patented Fractional Lobe screw geometry. The platform is now available for deployment.

The platform leverages the specialized functionalities of **SPE** (Steer Special Elements, such as **RFV** (for intake); **FKB** (for melting of polypropylene); and **OSE** wave element (for wetting of glass fiber).

Dr Babu Padmanabhan, Managing Director and Chief Knowledge officer said, "The quest to replace energy intensive and heavy metal parts with lighter weight and environment friendly plastics continue to leads us to new frontiers and the advancement in compounding technology made by us is one more important step in this direction"

Tests and outcome

The ADC conducted several tests to achieve dramatic results in terms of Fiber length and orientation. The compounding of the CGFT composite was achieved with a high-flight depth, high free volume, STEER Omega 40 co-rotating twin-screw extruder. Scientific choices of screw elements along with production process, and the control of process parameters, distinctly influenced the final fiber orientation and length.

Mr Atanu Maity, Chief Executive Officer said, “STEER’s vision is to contribute to the development of Material Technology for developing and deploying innovative technologies, and enable our customers to achieve more”.

Suited Applications

The CGFT is best for applications where PP short glass & PA short glass reinforced materials are used. For example CGFT PP with 30% glass is better than PP 40% short glass filled grade in terms of cost & lightness. (Glass roving’s are cheaper than chopped glass). Against GFPA, CGFT is a cost effective alternative that can be used for most of the “under the bonnet” parts like radiator end caps, fan & shroud, and air in -take manifolds in automotive applications.

About STEER:

STEER is a manufacturer and creator of specialized components, machine systems and platforms that effectively transforms and functionalizes materials in the fields of Polymers, Biopolymers, Pharmaceuticals and Food, using the core application of Co-rotating Twin Screw Extrusion

Founded in 1993 by Dr. Babu Padmanabhan with a vision to **steer a new world**, STEER today has 5 global offices and 10 satellite offices, serving over 35 countries and employs over 500 gifted engineers, scientists and technicians across the globe.

With many granted patents under its belt, STEER is committed to the creating new designs and technologies that enable our customers to produce the highest quality products, lower operational costs and innovate new products and processes that have the potential to improve the overall quality of human life. STEER’s Application Development Centers (ADC’s) in India, USA and Japan provides the customers with the appropriate environment to explore, develop and innovate with STEER technology. For more information, visit steerworld.com

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