

CHINAPLAS: COLLOIDS LAUNCHES HIGH-TEMPERATURE ENGINEERING POLYMER MASTERBATCHES AND CONDUCTIVE/ESD COMPOUNDS

UK-based color and additive masterbatches supplier Colloids launched two new product ranges aimed at markets with high performance applications spanning automotive, electrical & electronics, and electrostatically dissipative (ESD) packaging, storage and distribution applications at Chinaplas 2018. The company showcased new high-temperature engineering polymer masterbatches and compounds that are part of its T-TEC range, as well as 11 newly developed permanent electrically conductive and ESD compound grades, which have been added to its existing E-TEC product range. The latter product line was predominantly developed by Colloids at its local China operation.



High temperature polymer masterbatches are being manufactured by Colloids in standard blue, red, green, brown, grey and black electrical identification colors, as well as bespoke colors on request.

The new T-TEC range of high-temperature masterbatches and compounds are for use with amorphous and semi-crystalline engineering polymers that can withstand continuous operating temperatures above 150°C. The masterbatches grades have been developed to meet demands from manufacturers for masterbatches with pigments that can withstand multiple heat histories at temperatures exceeding 350°C. The T-TEC range is formulated using specially selected and formulated pigments and carrier systems based on PPS, PPSU, PPA and PEEK.

Depending on the polymer grade, Colloids can supply a high-temperature masterbatches or compound in standard blue, red, green, brown, grey or black, as well as in customer bespoke colors. The types of high temperature masterbatches carriers used in the T-TEC range are suitable for use in the most demanding compounding applications without affecting the mechanical performance or chemical resistance of the base polymers. A bespoke T-TEC masterbatch and compound product development service for a wide range of other high-performance engineering polymers is also provided.

Colloids' E-TEC compound grades have been formulated to offer superior mechanical properties, along with the added benefits of enhanced process capability, excellent weld ability and good aesthetics. In addition to the standard range Colloids also provides bespoke, customer specific E-TEC products.

China and the Asian market has become an increasingly important region for Colloids, which in 2016 established Colloids Plastic (Suzhou) Co. Ltd., a masterbatch manufacturing plant located in Changshu, about 90 km northwest of Shanghai. Expansions have been made since startup, with \$2 million-worth of high-temperature processing equipment having been installed to handle the higher range of temperatures for masterbatch production. Further investment is envisaged.

The new general manager for Colloids China operations, Dr. Craig MacDougall, who recently joined the company after 22 years with Americhem, commented: "This is a very exciting time to be joining Colloids which is clearly committed to developing its business in China and Asia. Chinaplas 2018 is the ideal event to introduce the two new product ranges to the Asian market and the Colloids team is looking forward to meeting both existing and potential new customers during the show."