

Milliken®
Zelec® 1410-M
 Electroconductive Powders

TECHNICAL DATA

Zelec 1410-M is an inorganic, conductive powder developed for application in opaque coatings and plastics where a reliable and permanent dissipation of static charge (ESD) is critical. Zelec's core-shell structure consists of a dense layer of crystallites of antimony-doped tin oxide on a mica core particle. In the case of Zelec 1410-M this is a unique, mica core that provides excellent efficiency through its flat shape and low density. The silica adhesion coat reduces the likelihood of conductive coating being removed through high shear dispersion processing. The antimony is in a solid solution with the tin oxide and is used as a conductive outer shell.

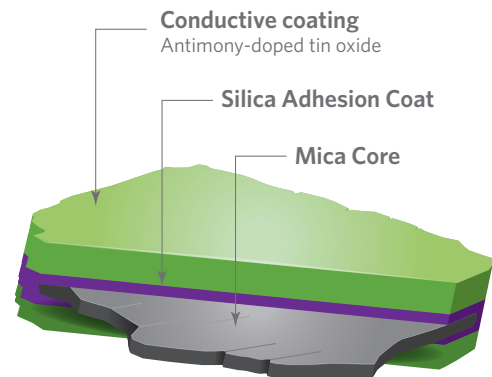
Features and Benefits

Zelec 1410-M is designed for developing high performance electrostatic discharge (ESD) and Explosive Atmosphere (ATEX) compliant coatings and plastics.

- Permanent, humidity independent ESD performance
- Light colored particles to enable a multitude of colors
- No particle release
- No sedimentation in low viscosity matrices
- High quality smooth surfaces can easily be achieved
- Enables meeting several standards such as the System Test and Walking Test following DIN EN61340-4-1, EN61340-4-5 and 61340-5-1
- Temperature resistant: more than 600°C

Availability

Zelec 1410-M is available in 50 lb (23 Kg) fibreboard drums with plastic liner. 4 drums per pallet make up a net weight per pallet of 200 lb (91 Kg).



Typical Properties

Particle size, D50	5 micron
Color	Light gray
Tap density	0.5 g/ml
Specific gravity*	3.5 g/ml
Surface area	20 to 40 m ² /g
Oil absorption	100 g Oil/100 g

* Specific gravity = Pycnometric density

Please contact your Milliken representative for further product information including chemical registrations, food contact status, and other regulatory details.

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

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