PO4033

Cromatipic; A sophisticated way of Metallizing plastics with in-line technology for high quality and productivity.

Chinmay Trivedi[1], Chinmay Trivedi[2], Emilio Rodriguez[2], Dave Doerwald[2], Jeroen Landsbergen[1]

[1]IHI Hauzer Techno Coating BV, Venlo, Netherlands [2]IHI Hauzer Techno Coating, Venlo, Netherlands

ctrivedi@hauzer.nl

Plastics are natural choice for various decorative application due to its low weight and non-corrosion behaviour. In automotive industry, plastics are metallized to provide premium look with bright or matt finish. Automated lacquering and metallization by Sputtered PVD on plastic can provide a high quality coating to satisfy various industrial standards. To achieve a bright color; Chrome plating has been the only solution for decorative coatings on plastics. This method, however, faces increasing environmental restrictions and is mainly applicable to ABS or ABS-PC substrates.
In the recent past several processes have been developed involving lacquer and PVD coatings, sometimes with a lacquered top coat, sometimes without. In this talk an overview for an In-line metallization process will be given. This process aims to fulfil several automotive standards with high productivity and reduced cost of ownership.
In modern era, fully automatic in-line technology is in demand to reach high productivity. In-line lacquering and PVD coating technology is a market requirement to reach better yields. During this presentation, we will explain about metallization by PVD integrated with lacquering in a production line.
The Author will explain about the importance of dealing appropriately with mutual influences between lacquering and PVD process. This will result in high a quality product and fulfil various industrial standards. To achieve different surface finish such as bright and matt, within production environment will be explained as well.

Keywords
Decorative
Non-corrosion
Plastics
lacquering
metallization