



Synthetic Pearlescent Pigments for Plastics

ECKART offers a unique generation of pearlescent pigments based on synthetic mica (fluorophlogopite) substrates under the brand name SYMIC.

Utilizing a special chemical production process, synthetic mica platelets can be produced with a lower level of impurities compared to natural mica. ECKART's synthetic mica range, SYMIC pearlescent pigments, exhibit very clean colors and are especially suitable for full color shades.



Due to improved surface coatings technologies the level of brilliance of SYMIC pearlescent pigments significantly exceeds that of comparable natural mica based pearls.

In addition SYMIC pearlescent pigments exhibit a low level of heavy metal contents which is of particular importance for cosmetics packaging or food packaging applications.

The photograph visualises the difference of synthetic mica (left) and natural mica (right) pearl substrates. Highly pure raw materials result in the production of very clean, high quality platelets which are the basis for the new generation of SYMIC pearlescent pigments.

The advantages of SYMIC pearlescent pigments are:

- Exceptional cleanliness of color
- High level of brilliance
- Significantly lower levels of heavy metals

SYMIC	Particle Size Distribution [µm]	Effects and Properties
SYMIC A001 L*	1 - 15	Interference Silver, ultra white pearl effect
SYMIC B001 L*	5 - 25	Interference Silver, ultra white pearl effect
SYMIC C001 L*	10 - 40	Interference Silver, ultra white pearl effect
SYMIC E001 L*	20 - 150	Interference Silver, ultra white pearl effect
SYMIC C221	10 - 40	Interference Gold
SYMIC E221	20 - 150	Interference Gold
SYMIC C241	10 - 40	Interference Red
SYMIC E241	20 - 150	Interference Red
SYMIC C261	10 - 40	Interference Blue
SYMIC C271	10 - 40	Interference Green
SYMIC C321	10 - 40	Combination Gold
SYMIC A393	1 - 15	Combination Gold
SYMIC C393	10 - 40	Combination Gold
SYMIC A502	1 - 15	Bronze (Earth Tone)
SYMIC A522	1 - 15	Copper (Earth Tone)
SYMIC C522	10 - 40	Copper (Earth Tone)
SYMIC C542	10 - 40	Fire-Red (Earth Tone)
SYMIC C604	10 - 40	Opaque Silver

*Stabilized against yellowing caused by phenolic antioxidants

The technical specifications and other information in this leaflet reflect our current knowledge. They are solely intended as general information for our customers. Our customers still bear the responsibility of testing the products to ensure suitability for their intended applications and meeting end-use requirements. We reserve the right to alter product performance and specifications. Our technical consulting service is available for further

advice, technical help in solving problems arising in manufacturing and applications, as well as with product formulations. The customer, however, is responsible for reviewing such data and recommendations prior to using them in an application. We assume no liability for the accuracy and completeness of the data presented on this leaflet or any other technical information we provide.

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