



Synthetic Pearlescent Pigments for Plastics



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ECKART offers an 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 colours and are especially suitable for full colour 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 colour – ultra white pearl effect
- High level of brilliance
- Significantly lower levels of heavy metals

SYMIC

Type	Pigment Colour	Modification	Particle Size Distribution D50 approx. [µm]
A 001L*	Interference Silver	Rutile	1 – 15
B 001L*	Interference Silver	Rutile	5 – 25
C 001L*	Interference Silver	Rutile	10 – 40
E 001L*	Interference Silver	Rutile	20 – 150
E 221	Interference Gold	Rutile	
E 241	Interference Red	Rutile	10 – 40
C 221	Interference Gold	Rutile	
C 241	Interference Red	Rutile	
C 261	Interference Blue	Rutile	
C 271	Interference Green	Rutile	
C 321	Combination Gold	-	
C 393	Combination Gold	-	
C 522	Copper	-	
C 542	Fire Red	-	
C 604	Opaque Silver	-	

*Stabilized against yellowing caused by phenolic antioxidants

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Our technical consulting service is available on request for further advice, for co-operation in solving problems arising in conjunction with manufacturing and applications, as well as for the elaboration of recommended formulations. However, this does not release the user from the responsibility appraising these data and recommendations prior to their application. No liability is assumed for the correctness and completeness of the data presented on this sheet as is also the case for any other technical information for application.

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