

Geopearl[®]

CRYSTAL PEARLESCENT PIGMENTS



Geoparl® Crystal is a range of premium quality synthetic pearlescent pigments suitable for plastic applications.

The characteristic shimmer of Geoparl® Crystal pearlescent pigments has been designed to match the unique luster of natural pearls. The basic structure is a platelet synthetic mica which is coated with a metal oxide. GEOTECH offers titanium dioxide and iron oxide coated synthetic pearlescent pigments.

Resulting from reflected, refracted and transmitted light patterns developed at the multiple interfaces between the layers, Geoparl® Crystal pearlescent pigments provide unsurpassed performance in brightness and colour play varying from white to earth tone effects.

The product range includes the following types:

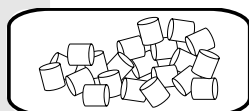
- Crystal silver/white synthetic mica based pearlescent pigments
- Crystal interference synthetic mica based pearlescent pigments
- Crystal golden synthetic mica based pearlescent pigments
- Crystal metallic synthetic mica based pearlescent pigments
- Crystal colour travel synthetic mica based pearlescent pigments

Reflective effects from matte softness (1 – 15 micron) to glittering reflection (100 – 260 micron) can be obtained by a wide variety of particle sizes. The total range contains over 70

Product benefits

- Batch to batch consistency
- Wide product range with over 75 product
- In compliance with regulations for plastics; including food contact

Recommended applications



- Masterbatch



PRODUCT RANGE

Crystal Silver/Icy White/Rainbow pigments

Art. Nr.	Product	Particle Size (µm)
1115500	Geoparl Crystal Soft Silver	1 - 15
1115510	Geoparl Crystal Silk Silver	5 - 25
1115520	Geoparl Crystal Silver	10 - 60
1115530	Geoparl Crystal Bright Silver	10 - 100
1115535	Geoparl Crystal Sparkling Silver	20 - 150
1115540	Geoparl Crystal Glittering Silver	40 - 250
1115640	Geoparl Crystal Icy White	10 - 60
1115650	Geoparl Crystal Sparkling Icy White	30 - 120
1115700	Geoparl Crystal Glittering Icy White	100 - 260
1115543	Geoparl Crystal Sparkling Rainbow	10 - 125
1115545	Geoparl Crystal Glittering Rainbow	40 - 200

Crystal Metallic pigments

Art. Nr.	Product	Particle Size (µm)
1115948	Geoparl Crystal Soft Beige	1 - 15
1115958	Geoparl Crystal Soft Bronze	1 - 15
1115963	Geoparl Crystal Soft Copper	1 - 15
1115968	Geoparl Crystal Soft Russet	1 - 15
1115964	Geoparl Crystal Soft Golden Copper	1 - 15
1115950	Geoparl Crystal Silk Beige	5 - 25
1115960	Geoparl Crystal Silk Bronze	5 - 25
1115965	Geoparl Crystal Silk Copper	5 - 25
1115970	Geoparl Crystal Silk Russet	5 - 25
1116025	Geoparl Crystal Rufous	10 - 60
1116000	Geoparl Crystal Glittering Bronze	50 - 250
1116010	Geoparl Crystal Glittering Copper	50 - 250
1116020	Geoparl Crystal Glittering Russet	50 - 250

PRODUCT RANGE

Crystal Interference pigments

Art. Nr.	Product	Particle Size (µm)
1115795	Geoparl Crystal Silk Gold	5 - 25
1115811	Geoparl Crystal Silk Red	5 - 25
1115819	Geoparl Crystal Silk Violet	5 - 25
1115829	Geoparl Crystal Silk Blue	5 - 25
1115839	Geoparl Crystal Silk Green	5 - 25
1115850	Geoparl Crystal Gold	10 - 60
1115810	Geoparl Crystal Red	10 - 60
1115820	Geoparl Crystal Violet	10 - 60
1115830	Geoparl Crystal Blue	10 - 60
1115840	Geoparl Crystal Green	10 - 60
1115850	Geoparl Crystal Bright Gold	10 - 100
1115860	Geoparl Crystal Bright Red	10 - 100
1115870	Geoparl Crystal Bright Violet	10 - 100
1115880	Geoparl Crystal Bright Blue	10 - 100
1115890	Geoparl Crystal Bright Green	10 - 100
1115900	Geoparl Crystal Sparkling Gold	20 - 150
1115910	Geoparl Crystal Sparkling Red	20 - 150
1115920	Geoparl Crystal Sparkling Violet	20 - 150
1115930	Geoparl Crystal Sparkling Blue	20 - 150
1115940	Geoparl Crystal Sparkling Green	20 - 150
1115550	Geoparl Crystal Glittering Gold	40 - 250

Crystal Golden pigments

Art. Nr.	Product	Particle Size (µm)
1115805	Geoparl Crystal Silk Sun Gold	5 - 25
1115806	Geoparl Crystal Sun Gold	10 - 60
1115807	Geoparl Crystal Bright Sun Gold	10 - 100
1115808	Geoparl Crystal Glittering Sun Gold	20 - 250



Crystal Colour Travel pigments

Art. Nr.	Product	Particle Size (µm)
1115570	Geoparl Crystal Sparkling Enchanting Blue	20 - 150
1075580	Geoparl Crystal Sparkling Charming Green	20 - 250
1115590	Geoparl Crystal Sparkling Flamboyant Fuchsia	20 - 150
1115600	Geoparl Crystal Sparkling Magical Gold	20 - 150
1115575	Geoparl Crystal Glittering Enchanting Blue	100 - 260
1115585	Geoparl Crystal Glittering Charming Green	100 - 260
1115595	Geoparl Crystal Glittering Flamboyant Fuchsia	100 - 260
1115605	Geoparl Crystal Glittering Magical Gold	100 - 260
1118260	Geoparl Crystal CT Sparkling Blue to Red	20 - 150
1118310	Geoparl Crystal CT Sparkling Fuchsia to Gold	20 - 150
1118110	Geoparl Crystal CT Sparkling Green to Red	20 - 150
1118210	Geoparl Crystal CT Sparkling Red to Gold	20 - 150
1118160	Geoparl Crystal CT Sparkling Violet to Orange	20 - 150

Crystal Titanium pigments

Art. Nr.	Product	Particle Size (µm)
1116060	Geoparl Crystal Soft Titanium	1 - 15
1116065	Geoparl Crystal Titanium	10 - 60
1116070	Geoparl Crystal Glittering Titanium	50 - 200

Crystal Amber pigments

Art. Nr.	Product	Particle Size (µm)
1116035	Geoparl Crystal Amber	10 - 75
1116036	Geoparl Crystal Sparkling Amber	20 - 150
1116037	Geoparl Crystal Glittering Amber	40 - 300

GENERAL FORMULATION DO'S AND DON'TS

Temperature resistance

Geoparl® Crystal pearlescent pigments have a temperature resistance up to 900°C due to calcination in the production process.

Compliance to regulations

The Geoparl® Crystal pearlescent pigments are approved for industrial use on the European, USA and Asian market; including food contact.

Colour mixing

Unlike traditional pigments, iridescent pearls reflect, refract and transmit light and follow an additive colour mixing scheme. A mix of blue and yellow interference pearls will yield a white reflection rather than the expected green (= subtractive colour mixing). This is why only limited mixing (so called tinting) of interference pigments is advised.

Order details

Available packaging

- 1 kg Nett weight
- 5 kg Nett weight
- 25 kg Nett weight

Shelf life

- 10 years original packaging stored in a closed box under dry conditions

Product data

- Product data sheets and additional technical product information are available on <https://geotech.nl/>

Concentration

Finished product	Recommended level of use
Masterbatch	10 - 20 %

PLASTIC CHIP SAMPLES

Product: **Plastic chip samples**
 Code: **Plastic presentation 2021 - Box 2**
 Special effect pigment: **Geoparl Crystal Amber | Geoparl Crystal Sparkling Amber | Geoparl Crystal Glittering Amber**

Product name	%WT.	Supplier
Plastic chip 5		
Geoparl Crystal Amber	1.00	Geotech International B.V.
Braskem Inspire 382 (Clear PP)	99.00	Braksem Netherlands B.V.
Plastic chip 6		
Geoparl Crystal Sparkling Amber	1.00	Geotech International B.V.
Braskem Inspire 382 (Clear PP)	98.00	Braksem Netherlands B.V.
Plastic chip 7		
Geoparl Crystal Glittering Amber	1.00	Geotech International B.V.
Braskem Inspire 382 (Clear PP)	99.00	Braksem Netherlands B.V.

Procedure

These chips are manufactured by dry mixing of components using a BOY25E injection molding machine. We recommend to incorporate our special effect pigments into a masterbatch for optimum results.

Samples of the chips are available upon request.



ABOUT US

Geotech International B.V., founded in 1984, manufactures and distributes special effect pigments. We are a privately owned family business with offices in The Netherlands, France and Turkey. A global sales network serves over 800 customers worldwide with 16 product lines.

Nowadays the company is managed by the third generation, focusing on innovation and sustainability. GEOTECH's sustainability program has been recognized by EcoVadis for its success, consistently placing us among the top-rated companies they assess. A certified quality management system based on ISO 9001 and GMP standards ensures reliability and excellence.

With over 450 special effect pigments in our portfolio we offer a diverse range of products for the plastics industry. An experienced team of specialists is available to provide you with a high level of service and technical support.

GEOTECH's special effect pigments are used globally in various industries to differentiate consumer products by creating attractive and luxurious appearances.

ecovadis



Plastics

At Geotech International B.V., we support our clients in the plastics industry by testing special effect pigments and conducting quality control with our injection molding machine with different plastic masterbatches.

Our expertise in new effects and pigment applications helps clients achieve unique and high-quality results, enhancing the visual and functional appeal of their plastic products.



Explore our complete portfolio for
the plastics industry at
www.geotech.nl



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