

# AWAKENING

Covestro CMF Design Trends  
2022 | 2023 Edition

Automotive



# AWAKENING

Covestro CMF Design Trends  
2022 | 2023 Edition  
Automotive



# Content

Prologue	<b>1</b>
Space at Pace	<b>5</b>
Distant Realms	<b>11</b>
Meaningful Autonomy	<b>19</b>
The Next Destination	<b>25</b>
Index	<b>31</b>

At Covestro, we co-create Color Material Finish (CMF) with designers, blending aesthetics and functionality into material-based experiences that can surprise and delight consumers. Collaboration is at the heart of our business model – we value our partners and work closely with them to develop customized, finely-tuned solutions. We add value through aesthetic, functional and circular design.

A global service at your fingertips. Our team offers world-class color development, drawing on diverse backgrounds and experience across a wide range of industries to optimize the impact of CMF on consumers. With a network of 6 Color & Design Centers connected across the globe, we're ready to support your design process physically and digitally, no matter where you are located.

Inspiration for your CMF strategy or design concepts. We continuously analyze and monitor trends to extract implications on aesthetics of materials. Our trend brochure in its 2022 | 2023 edition shows how actual and longer lasting key themes for the industry can be translated into a convincing CMF strategy and a makeable design. We are constantly pushing the boundaries on what can be achieved with our high quality, tunable polycarbonate and hope to inspire designers by providing a glimpse of the possibilities.

We have a team of in-house designers and colorists who will help you better engage consumers through world class CMF design by leveraging the optical, tactile, haptic, mechanical, aesthetic and functional properties of polycarbonate. We're ready to help you make your designs a reality, from concept to mass-production.



No longer the simple assembly-line produced metal boxes of yesteryear; today's automobiles are sophisticated machines that have surpassed their original purpose of transporting passengers from one destination to another. Vehicles are not only designed for meaningful integration of space and functionality but also viewed as a means of solving everyday problems and alleviating anxiety.

As it becomes easier to mimic current designs, finding unique sources of inspiration can prove difficult – as such, many are looking to various cultural origins to gain fresh insights and perspectives. Within the symbols, patterns, and other hallmarks of early civilizations, it may be possible to uncover new and innovative blueprints for future mobility.

It is also worth noting that automotive developments are moving from purely industrial pursuits towards more elevated, design-led approaches, driven by the considerable influence and purchasing behavior of younger consumers.

As the scope for interaction between user and vehicle continues to expand and evolve, so do the requirements for automotive materials. Contemporary material innovations have brought about greater design possibilities from better personalization, to lightweighting and recyclable materials enabling sustainable development in the process.

As the future CMF trends are mainly oriented to the interior, we focus these new proposal on the interior application.

Trend 1

# Space at Pace



In the hustle and bustle of the city, the pace of urban life fragments time into fleeting moments, with enormous pressure to shift quickly from one context to another. Here, automobiles could become adaptive spaces to help manage these transitions, as interiors become more focused on pleasurable spatial experiences instead of technological displays. Users could fully immerse themselves in the relaxing, restorative environment automatically generated by the car and be rejuvenated.

Such spaces would provide a safe harbor, where users can enjoy being in a soothing, comfortable, and clean environment.

### **Warm Embrace**

Whether it's associating sound with surface tactility, or temperature with geometry, the combination of multiple sensory stimuli can reshape our understanding of color, shape, structure, and texture. In this way, multisensory perception can enrich our experiences in ways that are reassuring or comforting, like a mother's embrace might be to a child. Such elements could be used to further enhance the experiences of those with partial or progressive physical impairment.

#### CME

Warm shades of white and translucent blush tones create the feeling of being in a safe, snug haven where one can let go and fully unwind, while bubble textures add to the sense of being able to breathe freely.

Makrolon® Ai2497, tailored for translucent parts with the highest requirements for purity and even appearance in automotive and truck interior. Makrolon® Ai2457, tailored for translucent parts with the highest requirements for purity and even appearance in automotive and truck interior.

### **Oasis of Freedom**

Over time, cars have provided people with the ability to travel far and wide at speed. Today's consumers want personalized spaces, separate from an office or residence; somewhere to relax, have a little breathing space and allow one's thoughts to wander, whilst secure in the knowledge that the vehicle is monitoring their health data for safe driving. On the other hand, cars are also becoming more like a flexible extension of the home, a place where family and friends can interact freely and safely.

#### CME

Users require a balance between the private and public aspects of life. Light and natural hues bring about a soft, calming ambience, while textures that resemble rippling water create a sense of flowing movement.

Makrolon® Ai2457, tailored for translucent parts with the highest requirements for purity and even appearance in automotive and truck interior.



**Cocoons**

22MOB11 (Base)

Solid  
Gloss Front / Matt Back  
Material: Makrolon® Ai2497  
Only for automotive  
interior application

**Warmth**

22MOB12 (Insert)

Translucid  
Gloss Back  
Material: Makrolon® Ai2457  
Only for automotive  
interior application

**Peppermint**

22MOB13 (Base)

Translucid  
Gloss Front / Gloss Back  
Material: Makrolon® Ai2457  
Only for automotive  
interior application

**Light Grey**

22MOB14 (Insert)

Translucid  
Matt Back  
Material: Makrolon® Ai2457  
Only for automotive  
interior application



Trend 2

# Distant Realms



Globalization has made the world smaller: the same stores appearing on every street corner, familiar skyscrapers dominating city skylines across the globe. In an era of instant information, have our lives all become indistinguishable from one another? Perhaps it is possible to break from this monotony by looking to past civilizations – authentic, unembellished colors and materials could be the key to unlocking greater imagination and creativity in mobility design. Rather than being confined to the rigid, cold nature of mass production, delving into ancient history could offer opportunities to re-think ideas, re-engage with the world, and craft sensory experiences that rekindle notions of warmth and nostalgia.

It is for these reasons that age-old cultures have long been a source of inspiration in automotive interiors. Their contribution is far from superficial; instead, they provide a rich cache of cultural knowledge, with complex concepts from philosophy to cosmology woven into symbols, patterns, and colors. Deciphering these codes is much like opening doors into different worlds, allowing us to interpret reality through a new lens and enriching our explorations of aesthetics.

The advancement of technologies such as 3D printing provide ample opportunities for breathing new life into traditional elements, such as materials with a hand-crafted, textured appearance. Artisanal techniques and know-how may seem familiar but can be adapted and reconfigured to achieve new design possibilities. This, perhaps, is how we may escape the bane of homogeneity.

### Multicultural Inspiration

Through the study of other cultures and ethnicities, today's urbanites find an escape from the tedium of daily life, distancing themselves from reality whilst broadening their horizons. Automotive design takes cues from this approach by reinterpreting historical emblems and narratives to form novel concepts instead of replicating generic ones.

#### CMF

Cultural immersion and understanding can be an effective antidote to mediocre design. Boldly contrasting color combinations and shades reminiscent of natural elements such as wind, water and soil are ideal. Bayblend® T85 XUV, PC+ABS grade for best in class automotive interior light stability for unpainted molded in color parts.

Makrolon® Ai2497, tailored for translucent parts with the highest requirements for purity and even appearance in automotive and truck interior.

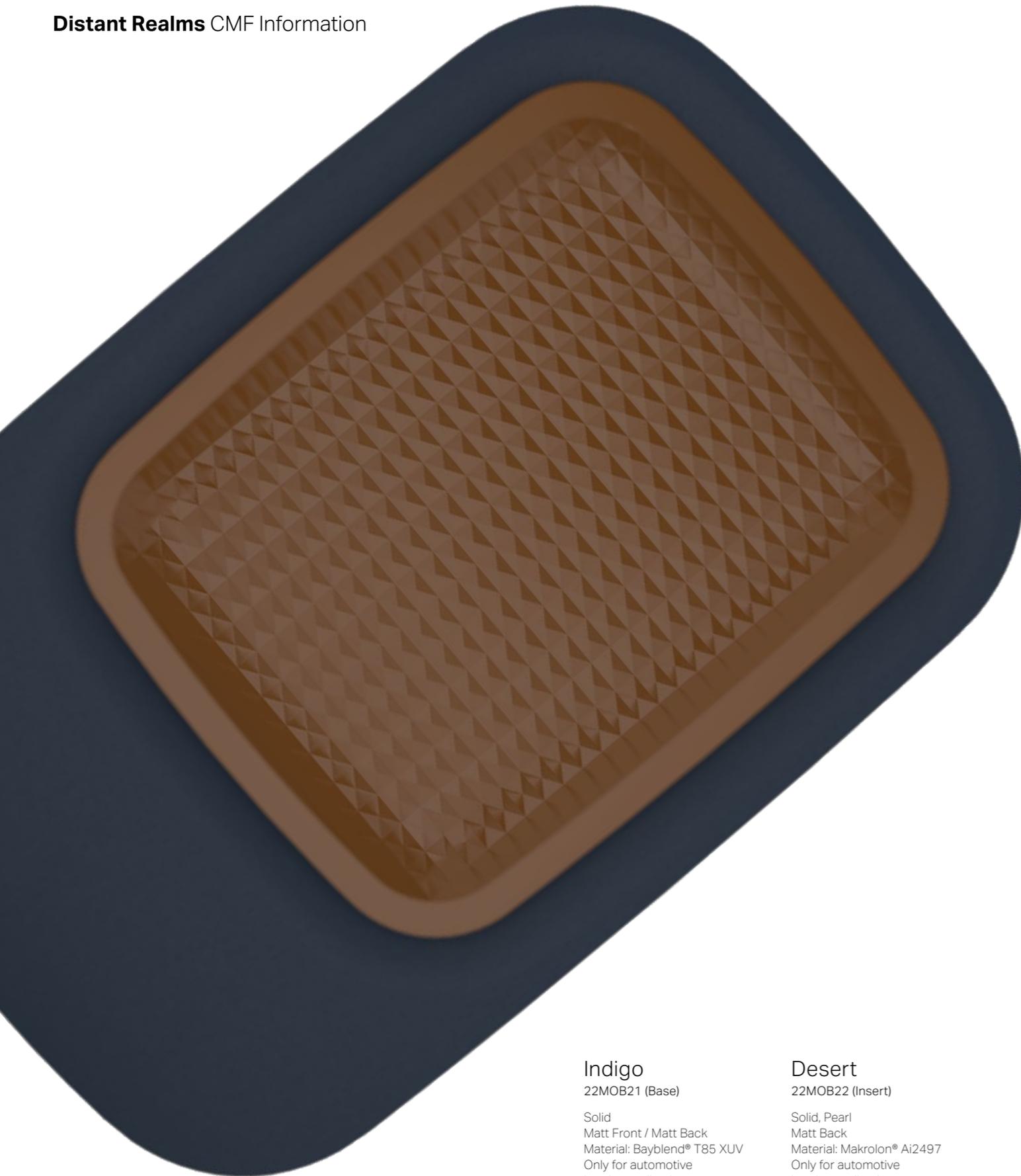
### Rethinking Craftsmanship

While standardization across the automotive industry has greatly increased precision in manufacturing, this efficiency can result in outputs that feel cold and impersonal. Can design be used to convey a more human touch, by bringing together craft techniques and technology in different ways? In the same way a person's handwriting tells a unique story about their personality and preferences, this combined approach could carve out new narratives for material design and development. This could lead to products that embody more warmth by bringing history and culture to life.

#### CMF

3D printing and other technologies are ushering in a new era of celebrating cultural traditions and craftsmanship, ensuring the continued existence of one-of-a-kind, handmade products.

Distant Realms CMF Information



**Indigo**  
22MOB21 (Base)

Solid  
Matt Front / Matt Back  
Material: Bayblend® T85 XUV  
Only for automotive  
interior application

**Desert**  
22MOB22 (Insert)

Solid, Pearl  
Matt Back  
Material: Makrolon® Ai2497  
Only for automotive  
interior application

**Wild Peak**  
22MOB23 (Base)

Solid  
Matt Front / Matt Back  
Material: Bayblend® T85 XUV  
Only for automotive  
interior application

**Wildflower**  
22MOB24 (Insert)

Solid  
Gloss Back  
Material: Bayblend® T85 XUV  
Only for automotive  
interior application





**Kintsugi**

22MOB25 (Base)

**PC Part**  
Solid  
Gloss Front / Gloss Back  
Material: Makrolon® Ai2497  
Only for automotive interior application  
**TPU Part**  
Material: TPU 3D printing

**Sculpture**

22MOB26 (Insert)

Material: PC 3D printing

Trend 3

# Meaningful Autonomy



Young people are considered the lifeblood of urban development, but this consumer segment itself is also highly multifaceted. Any lifestyle is possible – single, DINK<sup>1</sup>, freelancing, or being a part of the ‘Slash Generation’<sup>2</sup> – as long as you take responsibility for your choices. In contrast to the relatively conservative and prudent spending patterns of their parents, Generation Z<sup>3</sup> have higher disposable incomes and are more willing to spend. Cars are products of high practical value– providing mobility and the conveniences that come with it, but they can also be considered as works of art that display their owners’ tastes. Anything can spark a new wave of consumer demand: for example, a newly launched art exhibition might trigger public interest in a particular color, or a bespoke pattern might appeal to young consumers who associate it with a sense of belonging.

Eager for creative encounters and outlets, the younger generation may look to automotive designs that enable them to discover, shape and express their individual identities in a meaningful way. In the near future, automotive designs that incorporate a mixed material palette and thoughtful aesthetics could cater to this need.

### **Self-expression Reigns Supreme**

Social and recreational events, such as commercial art exhibitions, are leading the way in urban lifestyle trends. Young consumers enjoy outdoor activities such as skiing and fishing which were traditionally associated with the aristocracy, while also freely expressing themselves on social media.

#### CMF

Using a single shade of red, experiment with varying levels of transparency and expressions of color to demonstrate the diverse range of visual design possibilities that can be achieved across different platforms.

Makrolon® Ai2497, tailored for translucent parts with the highest requirements for purity and even appearance in automotive and truck interior. Makrolon® Ai2457, tailored for translucent parts with the highest requirements for purity and even appearance in automotive and truck interior.

### **The Irreplicable ‘Me’**

Automotive designs are developed with an eye on the bold and divergent purchasing patterns of young consumers around the globe. With a strong affinity for art and design, this generation is inclined towards palettes that emphasize their individuality and autonomy. They eschew rigid design principles in favor of pursuing rituals and a quality of life that brings them joy.

#### CMF

Contrasting hues of yellow and blue illustrate the ambivalent attitudes of the younger generation – the pearlescent blue represents new ideas generated by internal contradiction, while the translucent yellow embodies an emerging lucidity and clarity of thought.

Makrolon® Ai2457, tailored for translucent parts with the highest requirements for purity and even appearance in automotive and truck interior.

1. DINK: abbreviation of the phrase “Double Income No Kids”

2. Slash Generation: the group of people switching between multiple roles/occupations.

3. Generation Z: the demographic cohort succeeding Millennials and preceding Generation Alpha (usually born 1995–2009).



**Tomato**

22MOB31 (Base)

Solid, Metallic  
Matt Front / Gloss back  
Material: Makrolon® Ai2497  
Only for automotive  
interior application

**Watermelon**

22MOB32 (Insert)

Translucid  
Gloss Back  
Material: Makrolon® Ai2457  
Only for automotive  
interior application



**Frost**

22MOB33 (Base)

Translucid, Pearl  
Gloss Front / Gloss Back  
Material: Makrolon® Ai2457  
Only for automotive  
interior application

**Mango**

22MOB34 (Insert)

Translucid  
Gloss Back  
Material: Makrolon® Ai2457  
Only for automotive  
interior application

Trend 4

# The Next Destination



Since its genesis, the automobile has undergone significant change in terms of exterior structure, functionality, and even aesthetic direction. Will the next wave of material and structural innovations pave the way for the next phase of automotive evolution? Current exploration of alternative materials and clean energy seems to indicate that cars will still have a place in future sustainable habitats. With flexibility, cleanliness and safety in mind, the goal is to build a lightweight, energy-efficient solution – so that each time the engine runs, it casts less of a shadow on the environment.

### **Lightweight Resilience**

Advanced automotive designs are increasingly lightweight, with additional innovative features that lower energy consumption and emissions, thus reducing environmental harm. A light yet compact external shell requires even stronger and more durable materials to ensure a safe and comfortable driving experience.

#### CME

Shades of black and purple evoke a sense of spaciousness, yet also reassuring reliability. Different levels of color opacity create a more effervescent visual appearance. The presence of rigid yet lightweight carbon composite further enhances this effect.

Makrolon® Ai2417, crystal clear / transparent colored and tailored for parts with the highest requirements for purity and high gloss surfaces in automotive interior. Makrolon® Ai2457, tailored for translucent parts with the highest requirements for purity and even appearance in automotive and truck interior.

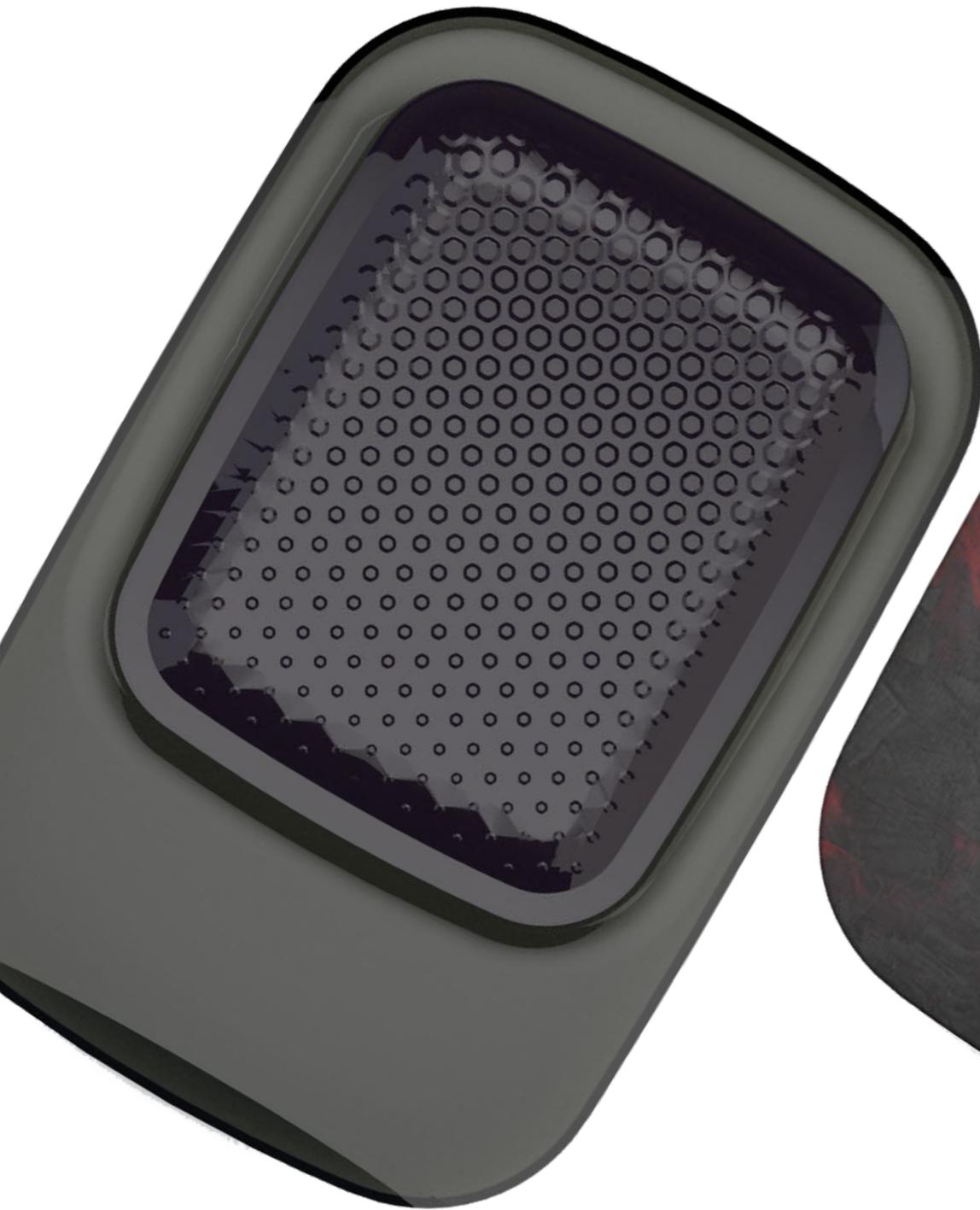
### **Sustainable Development**

The earth's resources are not infinite. Car manufacturers are now taking on more social responsibility by reducing energy consumption in product life cycles, transitioning to gas-electric hybrid or full-electric models, and exploring the use of sustainable materials.

#### CME

Solid, earthy colors are a reminder that we have limited resources on our planet, while utilizing post-consumer recycled materials can help to encourage the implementation of circular systems.

Bayblend® T85X R25, (PC+ABS) Blend with 25% PC recycle, good injection molding processing behaviour (easy flowing), available in dark colors only.



**Obsidian**  
22MOB41 (Base)

Transparent  
Gloss Front / Gloss Back  
Material: Makrolon® Ai2417  
Only for automotive interior application

**Mineral Grey**  
22MOB42 (Insert)

Translucid  
Matt Back  
Material: Makrolon® Ai2457  
Only for automotive interior application



**Flame**  
22MOB43 (Base)

Solid  
Color: 301796  
Material: Maezio®

**Essence**  
22MOB44 (Insert)

Solid  
Material: Maezio®



**Tawny**  
22MOB45 (Base)

Solid  
Gloss Front / Matt Back  
Material: Bayblend® T85X R25  
Only for automotive interior application  
Only available in Asia Pacific

**Golden Sand**  
22MOB46 (Insert)

Solid  
Matt Back  
Material: Bayblend® T85X R25  
Only available in Asia Pacific





P. 8  
**22MOB11 Cocoon (Base)**  
 Solid  
 Gloss Front / Matt Back  
 # RAL 1013  
 Material: Makrolon® Ai2497  
 Only for automotive interior application

**22MOB12 Warmth (Insert)**  
 Translucid  
 Gloss Back  
 # RAL 050 70 20  
 Material: Makrolon® Ai2457  
 Only for automotive interior application

P. 9  
**22MOB13 Peppermint (Base)**  
 Translucid  
 Gloss Front / Gloss Back  
 # RAL 200 80 15  
 Material: Makrolon® Ai2457  
 Only for automotive interior application

**22MOB14 Light Grey (Insert)**  
 Translucid  
 Matt Back  
 # RAL 860-1  
 Material: Makrolon® Ai2457  
 Only for automotive interior application

P. 14  
**22MOB21 Indigo (Base)**  
 Solid  
 Matt Front / Matt Back  
 # RAL 5008  
 Material: Bayblend® T85 XUV  
 Only for automotive interior application

**22MOB22 Desert (Insert)**  
 Solid, Pearl  
 Matt Back  
 # RAL 060 50 30  
 Material: Makrolon® Ai2497  
 Only for automotive interior application

P. 15  
**22MOB23 Wild Peak (Base)**  
 Solid  
 Matt Front / Matt Back  
 # RAL 750-6  
 Material: Bayblend® T85 XUV  
 Only for automotive interior application

**22MOB24 Wildflower (Insert)**  
 Solid  
 Gloss Back  
 # RAL 010 80 15  
 Material: Bayblend® T85 XUV  
 Only for automotive interior application



P. 16  
**22MOB25 Kintsugi (Base)**  
 PC Part  
 Solid  
 Gloss Front / Gloss Back  
 # RAL 9005  
 Material: Makrolon® Ai2497  
 Only for automotive interior application  
 TPU Part  
 Material: TPU 3D printing

**22MOB26 Sculpture (Insert)**  
 Material: PC 3D printing

P. 22  
**22MOB31 Tomato (Base)**  
 Solid, Metallic  
 Matt Front / Gloss back  
 # RAL 030 50 40  
 Material: Makrolon® Ai2497  
 Only for automotive interior application

**22MOB32 Watermelon (Insert)**  
 Translucid  
 Gloss Back  
 # RAL 030 60 40  
 Material: Makrolon® Ai2457  
 Only for automotive interior application

P. 23  
**22MOB33 Frost (Base)**  
 Translucid, Pearl  
 Gloss Front / Gloss Back  
 # RAL 250 70 30  
 Material: Makrolon® Ai2457  
 Only for automotive interior application

**22MOB34 Mango (Insert)**  
 Translucid  
 Gloss Back  
 # RAL 080 70 70  
 Material: Makrolon® Ai2457  
 Only for automotive interior application

P. 28  
**22MOB41 Obsidian (Base)**  
 Transparent  
 Gloss Front / Gloss Back  
 # RAL 000 15 00  
 Material: Makrolon® Ai2417  
 Only for automotive interior application

**22MOB42 Mineral Grey (Insert)**  
 Translucid  
 Matt Back  
 # RAL 300 30 10  
 Material: Makrolon® Ai2457  
 Only for automotive interior application



P. 28  
**22MOB43 Flame (Base)**  
 Solid  
 Color: 301796  
 Material: Maezio®

**22MOB44 Essence (Insert)**  
 Solid  
 Material: Maezio®

P. 29  
**22MOB45 Tawny (Base)\***  
 Solid  
 Gloss Front / Matt Back  
 # RAL 070 50 20  
 Material: Bayblend® T85X R25  
 Only for automotive interior application  
 Only available in Asia Pacific

**22MOB46 Golden Sand (Insert)\***  
 Solid  
 Matt Back  
 # RAL 080 70 30  
 Material: Bayblend® T85X R25  
 Only available in Asia Pacific



# Covestro Global Color & Design (CMF)

## Connect with us

CMF-Design@covestro.com

## Homepage

www.solutions.covestro.com

## Virtual Sample Library



---

### Editor in Chief / Business Development Color & Aesthetics (CMF)

Emily Shi	emily.shi@covestro.com	Polymer Research & Development Center Shanghai	Covestro (Shanghai) Investment Co., Ltd., No. 33 Qinqiao Road, Pudong District, Shanghai, China
-----------	------------------------	--	---

### Material Visualization & Rendering / Business Development Digital Sampling (CMF)

Dr. Tobias Rausch	tobias.rausch@covestro.com	Business Entity Engineering Plastics	Covestro Deutschland AG, B207, Kaiser-Wilhelm-Allee 60, 51365 Leverkusen, Germany
-------------------	----------------------------	--------------------------------------	---

---

### Color Creation & Material Sampling / Head of Color & Design (CMF) Center Teams

Helen Fang	helen.fang@covestro.com	Color & Design Center Shanghai	Covestro Polymers (China) Co., Ltd., B123, 82, Muhua Road, Fengxian District, Shanghai, China
Polo Zou	polo.zou@covestro.com	Color & Design Center Guangzhou	Guangzhou Covestro Polymers Company Ltd., 10, Doutang Road, Huangpu District, Guangzhou, China
Kannika Surinta	kannika.surinta@covestro.com	Color & Design Center Map Ta Phut	Covestro (Thailand) Co., Ltd., 4-4/1, I-8 Road, Map Ta Phut Industrial Estate, Muang Rayong, Rayong 21150, Thailand
Sunil Patel	sunil.patel@covestro.com	Color & Design Center Greater Noida	Covestro India Pvt. Ltd., Plot 1A, Udyog Kendra, Sector Ecotech III, Greater Noida 201306, Uttar Pradesh, India
Patrizia Pernice	patrizia.pernice@covestro.com	Color & Design Center Filago	Covestro s.r.l. Via delle Industrie 9, 24040 Filago (BG) Italy
Terry Bush	terry.bush@covestro.com	Color & Design Center Newark	Covestro LLC, 1111 O'Neill Drive Hebron, OH, 43025-9660 USA

### Head of Global Color & Design (CMF)

Dr. Christopher Stillings	christopher.stillings@covestro.com	Business Entity Engineering Plastics	Covestro Deutschland AG, B207, Kaiser-Wilhelm-Allee 60, 51365 Leverkusen, Germany
---------------------------	------------------------------------	--------------------------------------	---

---

### Collaboration

Concept Design	Design Trend Institute, Shanghai Jiao Tong University
Editor	Urban China
Graphic Design	July Cooperative Company
Consultant	Chris Lefteri Design



Covestro Deutschland AG,  
B207, Kaiser-Wilhelm-Allee 60,  
51365 Leverkusen, Germany

The manner in which you use our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products to determine suitability for your processing and intended uses. Your analysis must at least include testing to determine suitability from a technical, health, safety, and environmental and regulatory standpoint. Such testing has not necessarily been done by Covestro, and Covestro has not obtained any approvals or licenses for a particular use or application of the product, unless explicitly stated otherwise. Any samples provided by Covestro are for testing purposes only and not for commercial use.

Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information, including technical assistance, is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed by you that you assume and hereby expressly release and indemnify us and hold us harmless from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.