

COMEBACK seats des. Patricia Urquiola



Leader in the industrial production and distribution of plastic accessories and design items, Kartell has always focussed on, and been dedicated to, research in avant-garde technologies and production processes. Quality, reliability, safety and respect for the environment have always been the company's key values.

From its creation in 1949 to today, Kartell has designed an incredible range of products, the fruit of creativity and of partnerships with the world's greatest designers. Our products are made using top-quality plastics, most of which are recyclable and environmentally friendly; our production processes are optimized to avoid excessive consumption and waste that are harmful to the environment and resources.

In 1996, Kartell received **UNI EN ISO 9001** certification for its Corporate Quality Management System. In 2012, we were also awarded **UNI EN ISO 14001** certification for our efficient Environmental Management System.

These certifications are proof that Kartell applies a careful control system that assesses and verifies the appropriateness of its technology, industrialization, quality and environment, in order to reconcile its industrial processes with the end consumer's needs and expectations.



And, reflecting its concern for protecting the health of the end consumer, Kartell is set to receive Greenguard certification for its collections in 2014. Greenguard was created in the United States in 2001 to develop a series of technical requirements to certify materials for indoor use. This certification attests to the quality of the air breathed in closed spaces furnished with Kartell products.

The parameters used are very strict, requiring that the furniture used and certified respect very specific emission limits in order to protect consumers' health, with particular regard to children.

When buying a Greenguard certified item, customers can be sure they are purchasing an inspected and safe product that does not pollute.

Greenguard is required by many certification boards for green buildings (LEED; CHPS; ASHRAE; Green Globes, NAHB; IgCC, CONSIP) worldwide.

Kartell's concern for the environment is reflected in its use of top-quality plastics that are clean, certified, environmentally friendly and mostly recyclable, along with packaging solutions that avoid waste.

We take great care to guarantee recyclability throughout our production cycle, right from the earliest design stages.

Recyclability is one of the strong points of Kartell's products: at the end of their life, all of Kartell's products plastic components can be recycled again and again. But is there an "end of life" for a Kartell product?



METALS

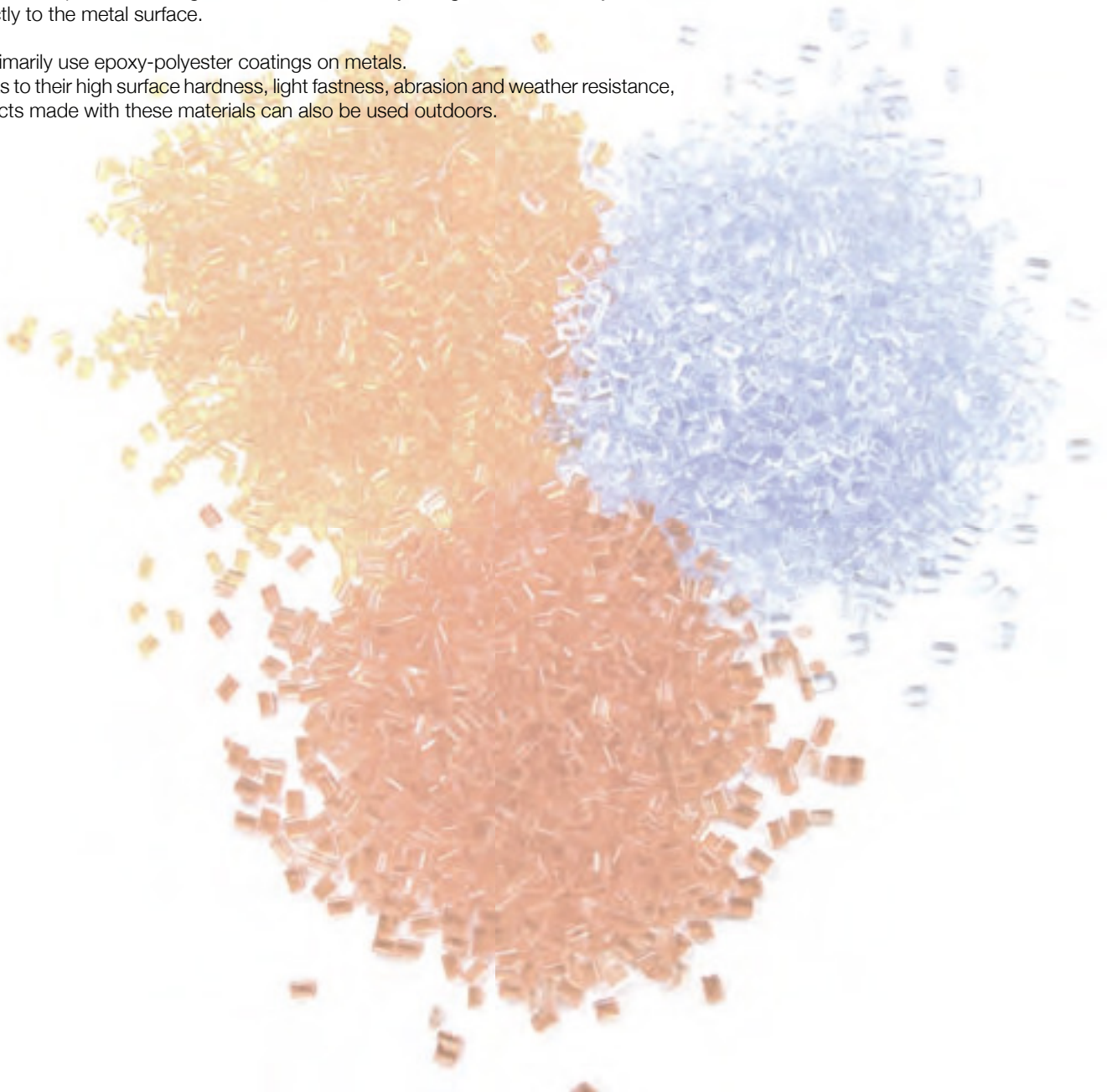
At Kartell, metals are used primarily for structural parts or to emphasize aesthetic effects.

The transformation technologies used are extrusion and casting.

Metal parts are often coated to improve the surface quality and appearance: in this case, we use powder coatings that can be electrically charged to ensure they adhere perfectly to the metal surface.

We primarily use epoxy-polyester coatings on metals.

Thanks to their high surface hardness, light fastness, abrasion and weather resistance, products made with these materials can also be used outdoors.



WOODS

Natural wood comes from trees, either conifers or broadleaf, and is commercially classified as either soft or hard. The wood Kartell uses is selected from the best on the market and is worked using the finest technologies to guarantee stress resistance and durability, in addition to full respect of all environmental standards.

Because wood is a natural material, there can be colour differences between various parts of the timber.

The plastic laminate that is sometimes combined with wood is obtained through lamination and is composed of phenol and melamine resins and thermosetting polymers.

It is used in the furniture manufacturing sector as a covering for wood panels such as chipboard, MDF, veneer and others.



ACRYLONITRILE-BUTADIENE-STYRENE

Acrylonitrile-butadiene-styrene (ABS) polymers are a unique family of engineering plastics.

The name derives from the initials of the three monomers composing it:

- Acrylonitrile (A) provides thermal resistance to ageing
- Butadiene (B) helps to maintain its properties at low temperatures, tenacity and impact resistance
- Styrene (S) provides gloss, stiffness and ease of processing

By varying the proportions of these three components, we can produce a wide variety of types of ABS for a just-as-vast variety of uses: in the automobile sector, in office machinery, in electrical and electronic products, home appliances and, naturally, furnishings.

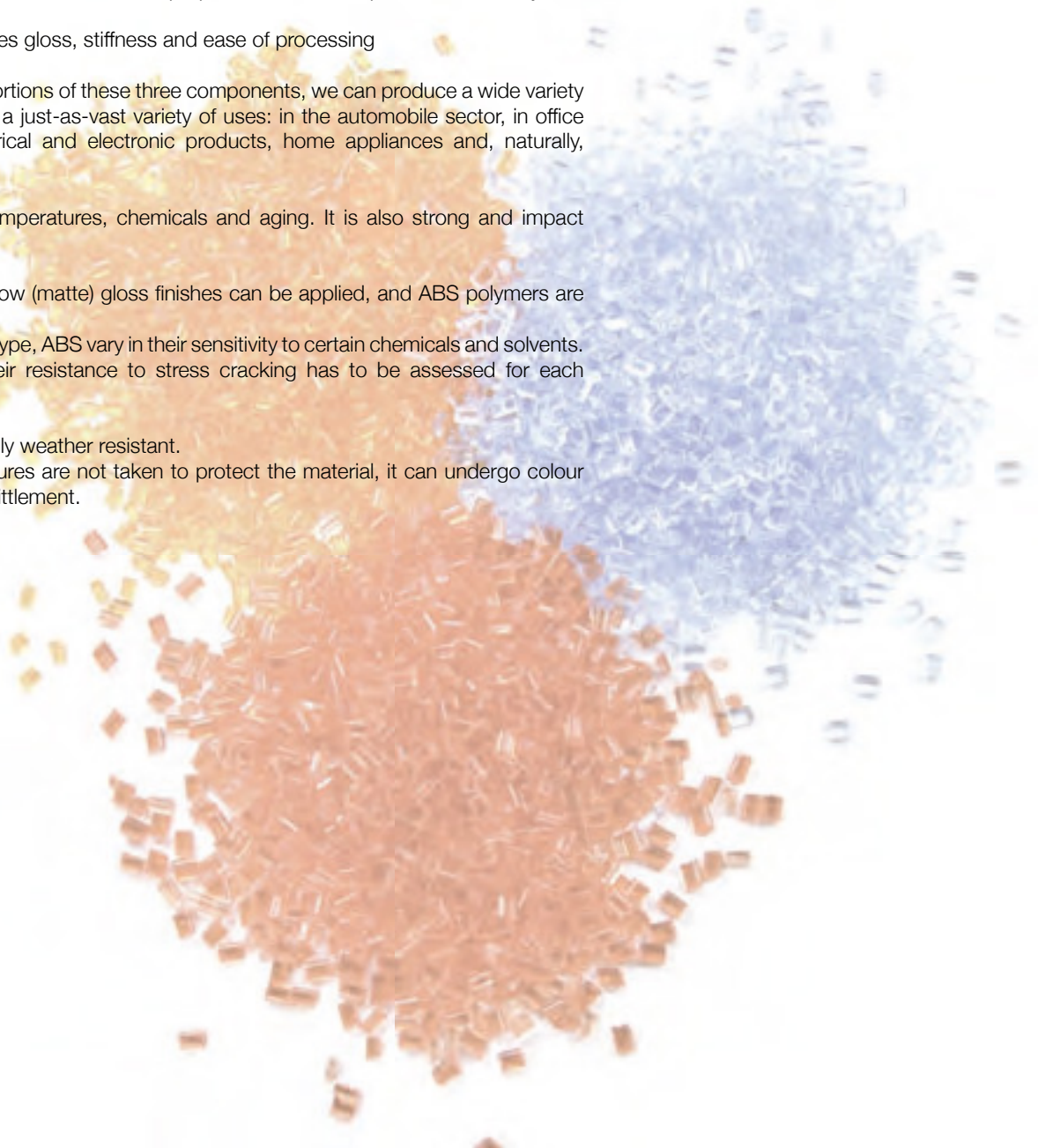
ABS resists high temperatures, chemicals and aging. It is also strong and impact resistant.

High, medium and low (matte) gloss finishes can be applied, and ABS polymers are easily coloured.

Depending on their type, ABS vary in their sensitivity to certain chemicals and solvents. For this reason, their resistance to stress cracking has to be assessed for each application.

ABS are not generally weather resistant.

If appropriate measures are not taken to protect the material, it can undergo colour variations and embrittlement.



UNI TECHNICAL STANDARDS

Reliability test results conducted and available

Reference technical standards	Test reference	Reached level Sled	Reached level Swivel
EN 15373:2007	General safety requirements paragraph 5.1 paragraph 5.2	Conform	Conform
	Attachment A par. A.2	Level max: level 3°	Level max: level 3°
EN 1728:2000	Static load on the back of the seat paragraph 6.2.1	Level max: level 3°	Level max: level 3°
	Static load on the front edge of the seat paragraph 6.2.2	Level max: level 3°	Level max: level 3°
	Static vertical load on the arms paragraph 6.6	Level max: level 3°	Level max: level 3°
	Fatigue strength of the seat/back paragraph 6.7	Level max: level 3°	Level max: level 3°
	Ear and tear on the front part of the seat paragraph 6.8	Level max: level 3°	Level max: level 3°
	Fatigue strength of the arms paragraph 6.10	Level max: level 3°	-
	Static load on front legs paragraph 6.12	Level max: level 3°	-
	Static load on side legs paragraph 6.13	Level max: level 3°	Level max: level 3°
	Resistance of the seat to blows paragraph 6.15	Level max: level 3°	Level max: level 3°
	Resistance of the back to blows paragraph 6.16	Level max: level 3°	Level max: level 3°
	Resistance of the arms to blows paragraph 6.17	Level max: level 3°	Level max: level 3°
EN 1022:2005	Stability	Conform	Conform

Level	Suggested use
1	Heavy domestic, use Light collective use
2	Collective use: public areas, waiting rooms, restaurants, offices
3	Heavy collective use: schools, prisons, hospitals

UNI TECHNICAL STANDARDS

Reliability test results conducted and available

Reference technical standards	Test reference	Reached level 4 legs	Reached level Rockers
EN 15373:2007	General safety requirements paragraph 5.1 paragraph 5.2	Conform	Conform
	Attachment A par. A.2	Level max: level 3°	-
EN 1728:2000	Static load on the back of the seat paragraph 6.2.1	Level max: level 3°	Level max: level 3°
	Static load on the front edge of the seat paragraph 6.2.2	Level max: level 3°	Level max: level 3°
	Static vertical load on the arms paragraph 6.6	Level max: level 3°	Level max: level 3°
	Fatigue strength of the seat/back paragraph 6.7	Level max: level 3°	Level max: level 3°
	Ear and tear on the front part of the seat paragraph 6.8	Level max: level 3°	Level max: level 3°
	Fatigue strength of the arms paragraph 6.10	Level max: level 3°	Level max: level 3°
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PRODUCT RECYCLABILITY AND REUSE

The very high quality of the materials used by Kartell for production gives its products a very long life. But what happens at the end of a Kartell product's life cycle?

The materials used to manufacture this product are 100% recyclable, based on generally applied criteria at the local level (recycling bins or recycling centres).

In this way, Kartell products can be reused to manufacture other objects. This transformation can potentially be repeated indefinitely.

Care

To care for your Kartell products, protecting their original characteristics, you just need to keep a few simple things in mind for each individual type of material.

Plastics

When cleaning plastic surfaces, use a damp, soft cloth with neutral liquid soap or cleanser, preferably diluted. Do not use ethyl alcohol or cleansers containing even the slightest amount of acetone, trichlorethylene, ammonia or solvents as these substances will permanently damage the plastic. In addition to the corrosive substances listed above, avoid abrasive substances, including powdered cleansers, abrasive creams and cleaning tools with coarse surfaces, such as steel wool or rough sponges.

Wood

Wood surfaces must be cleaned with a soft, damp cloth. Do not use alcohol or spot removers. For more intensive cleaning, add a bit of liquid detergent, that won't scratch, and wipe in the direction of the grain to remove stains even in the smallest pores. Then wipe with a well-wrung cloth and dry all surfaces well. Do not use acetone, trichloroethylene or ammonia.

Metals

Ordinary stains on Metalsc surfaces in steel or aluminium, whether natural or coated, must always be removed with water (preferably hot) and a neutral liquid detergent; then the surface should be dried with a soft cloth or with a chamois. Do not use powdered detergents, abrasive or steel wool that could scratch, or liquid detergents containing chlorine or derivatives like bleach or muriatic acid.

Packaging

All of this product's packaging—cardboard, plastic wrap, paper—is 100% recyclable, based on generally applied criteria at the local level (recycling bins or recycling centres). This is the best way you can contribute to environmental sustainability: avoid waste and avoid "littering" the environment with excessive waste.



"QUALITY CONTROL" LABEL

Kartell uses various control systems in its production.

The red "QUALITY CONTROL" label found inside each box is your guarantee that the product was checked by a Quality Control inspector before being packaged.

The codes on the control label are used to trace essential data in the event there is a problem with the product.

