- Durability and strength
- Low-cost material
- Non-marring and abrasion resistant
- Excellent chemical resistance
- Very low moisture absorption
- Very good elongation properties at extreme temperatures
- Eliminates random outliers in mechanical properties that are found in SLS printing
- Similar processing to PA 11 SLS
- 60% less carbon footprint impact than PA 12
- Low warp materials

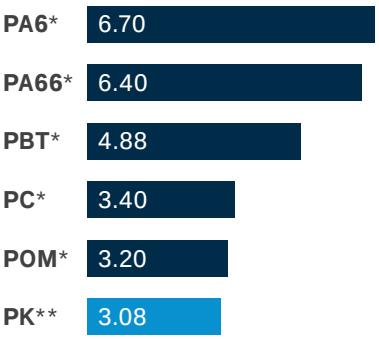
For additional information, visit

MATERIAL	UTS (MPA)	MODULUS (MPA)	EAB (%) S	UNNOTCHED IMPACT STRENGTH (J/M)	NOTCHED IMPACT STRENGTH (J/M)		ELONGATION AT YIELD, OFFSET 0.2%	TENSILE STRESS AT YIELD, OFFSET 0.2%
	Orientation	Orientation	Orientation	Orientation	Orientation		(%)	(MPa)

For additional information, visit

In addition to good mechanical properties, PK5000 powder for SLS printing has great resistance to a variety of chemicals for demanding applications. Printed PK5000 has a low polarity surface, which coupled with its high crystallinity and close packing in the crystalline phase prove to handle many harsh chemicals.

For additional information, visit



* Other ETP data is based upon the Eco Profiles data from www.plasticseurope.org

** PK data is based upon Ecoinvent database according to ISO Standard 4040 and 14044

Acrylate Free

Melamine Free

Bisphenol A Free

Formaldehyde Free

Lead/Chrome Free

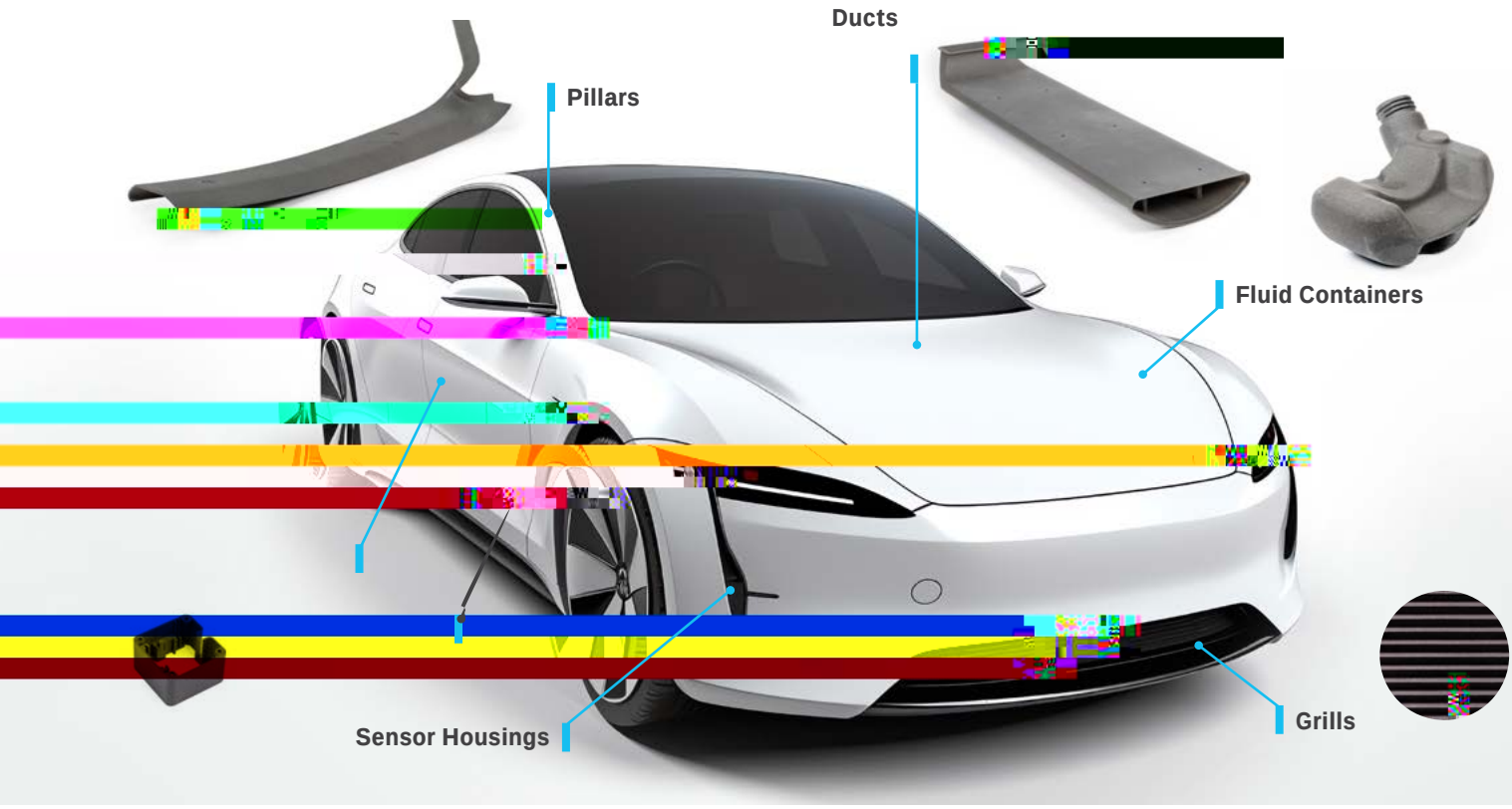
Phthalate Free

EARTH
FRIENDLY

For additional information, visit

Automotive

PK 5000 shines in the automotive industry by printing durable and complex geometries without additional costs, making it ideal for manufacturing lightweight, integrated components that can



Prototypes

Molding Equivalent Prototypes

Bridge Production

Serial Production Parts

Underhood

Paneling

Surface Appearance/ Aesthetic Parts

Paintable Parts

- Cost competitive for bridge and serial production
- Molding Equivalent Prototypes for low volume, bridge production
- Higher print success rate for larger components
- Durability
- Easy post-processing to get a better cosmetic for customer facing parts

For additional information, visit

Drone/UAV

PK 5000's mechanical properties prevent degradation from harsh chemicals and extreme temperatures and are able to handle maximum damage tolerances.

Fuel Tanks

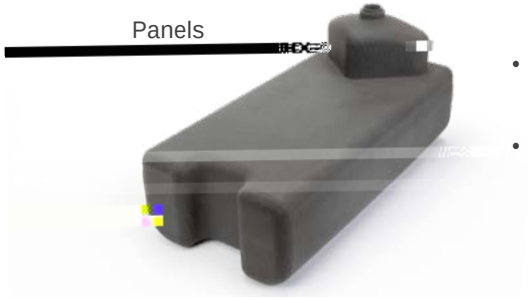
Landing Gear

Damage Tolerance Skins

Pressure Vessels

Fluid Vessels

Panels



- 3D printed fuel tanks allow for design that increases fuel capacity and flight time
- PK 5000 is (chemical) resistant to (fuel mixture) and provides UV stability
- Rigidity and impact resistance for end use and ease of assembly
- Less overall weight from additive manufacturing improves performance
- "Higher" damage tolerance in multiple applications vs materials that meet heat and chemical requirements

For additional information, visit

For additional information, visit

Agriculture and Heavy Machinery

PK5000 works in conjunction with additive manufacturing in the agriculture space to allow printed parts that maintain strength and durability needs.

Low to Medium Volume Production

Prototypes

Molding Equivalent Prototypes

Bridge Production

Serial Production Parts

Chemical and High Wear Parts

Grain Handling Hoppers

Fluid Handling Components

Air seeder

MRO Parts

Sensor Mounts

Brackets

Surface Panels

- Cost
- Higher print success rate for larger components
- Durability
- Molding equivalent prototyping for low volume, bridge production
- Chemical resistance
- Eliminates brittle print failures
- Part replacement for those impossible to solve situations and applications

For additional information, visit

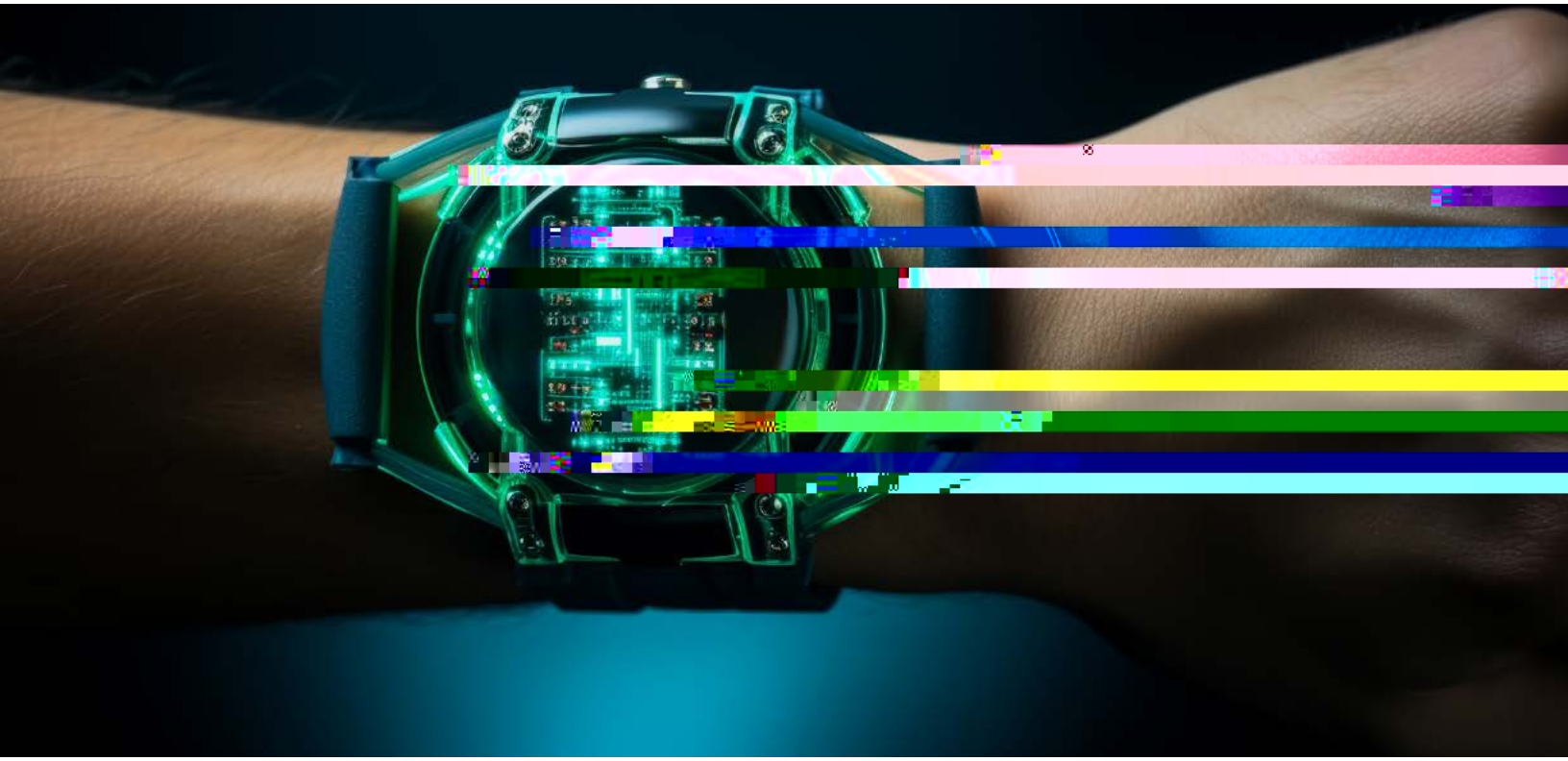
Military Vehicles

PK 5000 excels in prototype and end-use parts where printed parts need to act like molded parts and where annual volumes make tooling cost prohibitive. Large part sizes enable panels and pieces not possible with other technologies.

For additional information, visit

Wearables

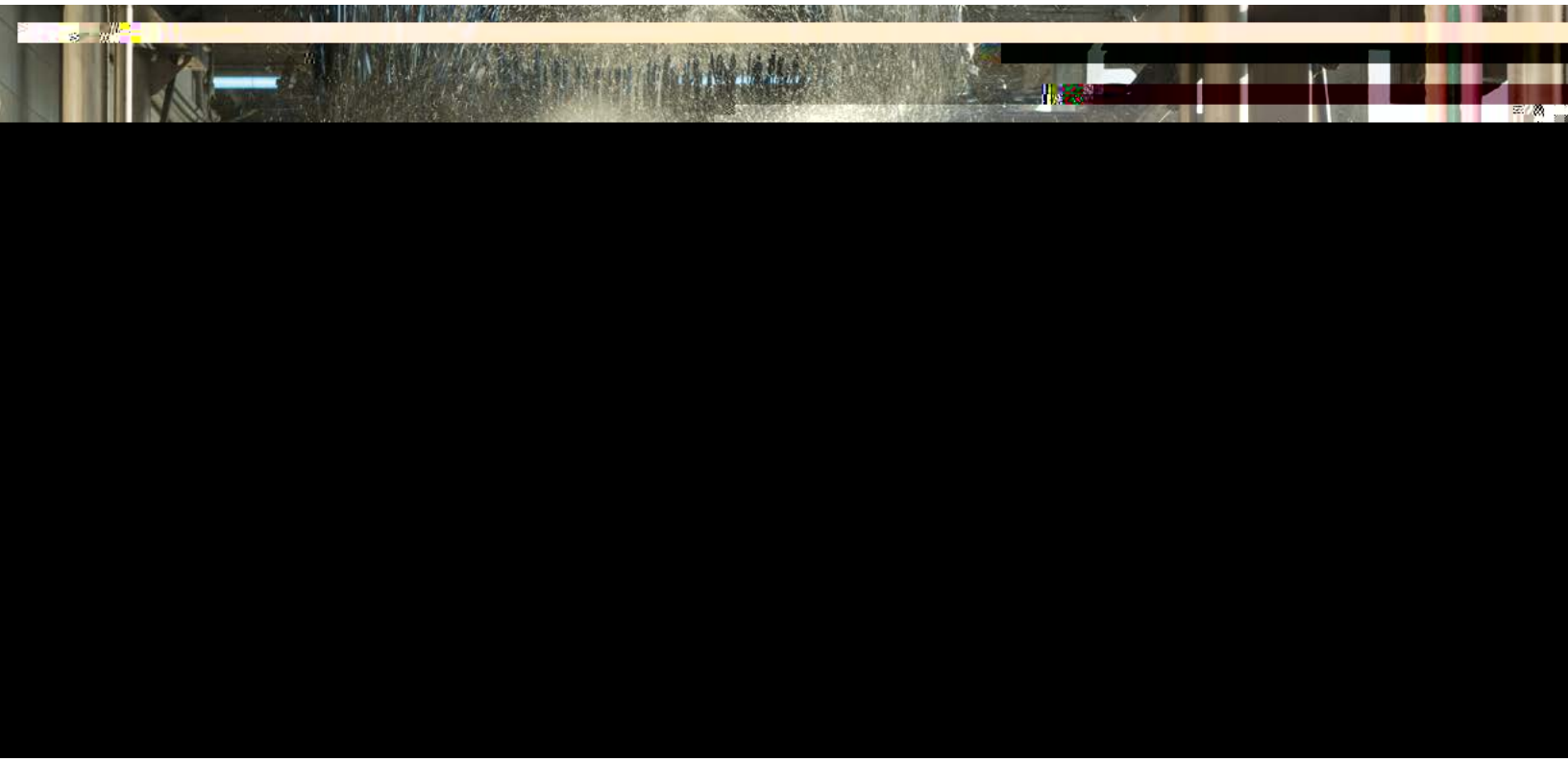
PK 5000 excels in wearable devices where toughness is critical. PK combines a skin safe material with a nearly indestructible thermoplastic.



- Prototypes
- Molding Equivalent Prototypes
- Bridge Production
- Serial Production Parts
- Biometric/health monitoring products
- Custody safety monitors
- Fitness Tracking
- Wrist/Ankle-Wear
- Virtual Reality Headwear
- Smart Watches

For additional information, visit

Fluid Handling Products



For additional information, visit

Custom Sample Request

See how your 3D part looks, feels and performs when printed with our PK 5000.

To set up a meeting with us, visit

For additional information, visit