

**HIRSCH** Porozell



# PROTECTIVE PACKAGING & TECHNICAL MOLDED PARTS

Product range

# SHAPING TOMORROW'S PROTECTION

From sensitive electronics to returnable logistics, from cold-chain pharma to high-volume industry — every product has its own protection profile. We engineer packaging and technical molded parts that perform under real loads, real processes and real sustainability targets. Across our material worlds, integrated development flows and a clear focus on solutions that fit.

## Overview

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## Solutions in our Material World

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| EPS _____          | 10 |
| HIRSCH:REeps _____ | 16 |
| EPP _____          | 22 |
| Molded Pulp _____  | 28 |

## How we work

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| Development _____ | 32 |
| Quality _____     | 34 |



#### EPS

High protection with low weight — providing effective shock absorption and insulation.

**Ideal for** protective packaging, thermal solutions, standard parts



#### HIRSCH:REeps

Circular EPS solutions — designed for performance and improved material cycles.

**Ideal for** protective packaging with recycled content and recycling service concept



#### EPP

Durable and reusable — built for returnable logistics and functional components.

**Ideal for** Returnable Transport Items (RTIs), automation trays (incl. ESD options), technical molded parts



#### MOLDED PULP

Fiber-based protection — sustainable look and feel with robust performance.

**Ideal for** inlays, cushioning structures, sustainable packaging concepts

WHY CHOOSING HIRSCH?

# PROTECTION THAT FITS

Protection is responsibility — for our customers, their products and the supply chains they operate in. Every application comes with different demands: shocks, vibration, temperature, weight, handling and time pressure. What sets us apart is our **in-house engineering and tooling expertise.**

From the first concept to the finished solution, development and tooling are closely connected under one roof.

Combined with more than five decades of foam expertise and a broad material portfolio, this allows us to develop protective packaging and technical parts precisely, efficiently and at scale. Whether for sensitive electronics, reusable logistics carriers, cold-chain applications or fiber-based packaging, we develop solutions tailored to the specific requirements of each product and process.

**From sensitive electronics  
to high-volume industry:**

our solutions are engineered to  
fit your product, your process  
and your sustainability goals.



WHY CHOOSING HIRSCH?

# WHAT SETS US APART

## TECHNOLOGY

Application engineering based on real loads, real constraints and real transport conditions. We validate concepts under measurable parameters — not assumptions.



## PROCESS EXCELLENCE

Stable series quality and reliable supply across all sites. What performs in the prototype performs in volume.



## TOOLING AND CUSTOMIZATION

In-house tooling competence for fast iterations and precise fit — from first concept to first part in weeks.



## SUSTAINABILITY

Circular options across the portfolio: recycled EPS, reusable EPP systems, fiber-based protection and a take-back service that closes the loop.



WHO WE ARE

# HIRSCH IN 90 SECONDS

**50+**

years of foam  
engineering expertise

**35**

production sites in  
11 countries across Europe

**1,800**

employees work for  
you every day

**80,000+**

tons of EPS annual  
production capacity

**10+**

industries served from  
electronics to automotive

**10,000+**

tons recycled EPS returned  
to the loop every year



## WHO WE ARE



Most experienced team



Outstanding support



Tailored solutions



Highest quality



Europe-wide production and logistics network

The #1 in Europe



Headquarter



Members of  
**HIRSCH Servo Group**



Scan the QR code to explore our European locations in detail

# FIND YOUR PROPER MATERIAL

## STEP 1 How will the shape molded part be used?

### Single-use

→ EPS, HIRSCH:REeps  
and Molded Pulp

### Multi-use

→ EPP

### Built-in

→ EPP

## STEP 2 What's your primary driver?

| I NEED                      |                                           | CHOOSE       | Page |
|-----------------------------|-------------------------------------------|--------------|------|
| Maximum protection at scale | cost-efficient                            | EPS          | 10   |
| Thermal insulation          | cold chain, food                          | EPS/EPP      | 22   |
| EPS performance             | recycled content and<br>take-back service | HIRSCH:REeps | 16   |
| Visible sustainability      | natural look and feel                     | Molded Pulp  | 28   |

## STEP 3 Any special requirements?

### ESD protection needed?

→ EPP with ESD option

### High-volume standard format?

→ EPS standard range

### Legal requirement?

→ HIRSCH:REeps

THE RIGHT MATERIAL

# COMPARE AT A GLANCE

Different applications need different strengths. This overview helps you compare our four material worlds across the criteria that matter most in protective packaging and technical molded parts.

|                                      | EPS   | HIRSCH:REeps | EPP   | Molded Pulp |
|--------------------------------------|-------|--------------|-------|-------------|
| Impact protection                    | ● ● ● | ● ● ●        | ● ● ● | ● ●         |
| Thermal insulation                   | ● ● ● | ● ● ●        | ● ● ● | ●           |
| Lightweight                          | ● ● ● | ● ● ●        | ● ●   | ● ●         |
| Durability                           | ● ●   | ● ●          | ● ● ● | ● ●         |
| Reusability                          | ● ●   | ● ●          | ● ● ● | ●           |
| Design freedom                       | ● ●   | ● ●          | ● ● ● | ● ●         |
| Surface                              | ● ●   | ● ●          | ● ●   | ● ●         |
| Circularity                          | ● ●   | ● ● ●        | ● ● ● | ● ● ●       |
| Recyclability                        | ● ● ● | ● ● ●        | ● ● ● | ● ● ●       |
| Automation-ready                     | ● ● ● | ● ● ●        | ● ● ● | ● ●         |
| Electrostatic discharge (ESD) option | ● ● ● | ●            | ● ● ● | X           |

**LEGEND** ● ● ● strong fit ● ● good fit ● limited fit x not typical



# EPS

EXPANDED POLYSTYRENE

## LIGHTWEIGHT PROTECTION ENGINEERED AT SCALE

EPS is the classic choice when impact protection, low weight and cost-efficiency need to work together. Its shock-absorbing cell structure reduces transport damage, its insulating properties enable temperature-sensitive logistics, and its scalability supports both standard formats and custom-engineered geometries.

**From protective packaging to advanced technical molded parts:** EPS adapts to your product, your packing process and your logistics — at quantities from prototype to high volume.

For circular requirements and to fulfil the PPWR, EPS extends seamlessly into HIRSCH:REeps — same performance, recycled content, integrated take-back service.

## MATERIAL WORLDS

### KEY BENEFITS



**High impact protection**  
proven shock absorption  
for drop, vibration and  
stacking loads



**Low weight**  
efficient logistics and  
ergonomic handling



**Fully recyclable**  
closed-loop pathway  
available via  
HIRSCH:REeps

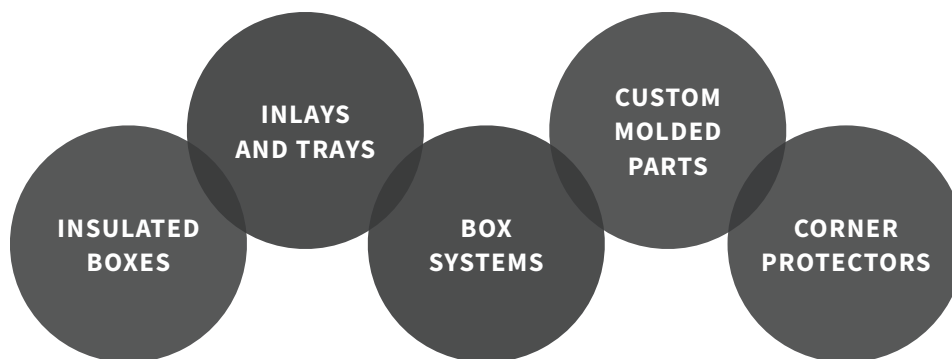


**Excellent thermal  
insulation**  
stable temperatures  
for cold-chain  
applications



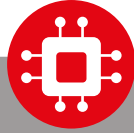
**Cost-efficient  
performance at scale**  
economical from  
standard formats to  
large custom series

### APPLICATION CATEGORIES



### WHEN TO CHOOSE EPS

- ✓ High-volume protective packaging where cost and weight matter
- ✓ Thermal or insulated solutions (cold chain, pharma, food)
- ✓ One-way packaging with high protection-per-cost ratio
- ✓ Custom geometries or proven standard formats
- ✓ Recyclable material with optional take-back via HIRSCH:REeps



### Typical Applications

TVs • IT and audio equipment •  
home appliances • power tools •  
sensitive components • assemblies



**REDUCED  
DAMAGE RATES**

**LOWER  
RETURN COSTS**

**STABLE LAST-  
MILE DELIVERY  
PERFORMANCE**

# ELECTRONICS AND WHITE/BROWN GOODS

Sensitive electronics and large appliances share the same protection logic: precise fit, secure positioning, reliable performance against shocks, vibration and handling stress. EPS solutions are engineered to keep your product where it belongs — through shipping, distribution and the last mile. Designs scale from individual components to complete unit-load systems.

### Key Features

- Precise inlays for safe positioning
- Corner protectors, end caps and edge guards
- Surface-friendly contact zones
- Custom geometries for high-mix product lines
- Packaging sets for retail, e-commerce and B2B distribution

### INDEPENDENT LCA STUDY

**EPS shows the lowest climate impact in the assessed TV and washing-machine scenarios.**

TNO Life Cycle Assessment, 2026  
Packaging solutions compared:  
EPS, EPP, paperboard and molded pulp.

| TV 50"                |      | WASHING MACHINE 80 kg |      |
|-----------------------|------|-----------------------|------|
| per delivered product |      | per delivered product |      |
| ● EPS                 | 2.38 | ● EPS                 | 5.73 |
| ● EPP                 | 2.51 | ● EPP                 | 7.29 |
| ● PAPERBOARD          | 3.03 | ● PAPERBOARD          | 8.94 |
| ● MOLDED PULP         | 3.45 |                       |      |

Results depend on assumptions such as damage rates, return rates and recycling rates. See TNO report for details.

## MATERIAL WORLDS

**Typical Applications**

Pharma shipments • clinical samples •  
diagnostics • biologics • vaccines •  
high-value temperature-sensitive  
goods



**TEMPERATURE  
STABILITY**

**PROTECTED PRODUCT  
INTEGRITY**

**AUDIT-READY  
LOGISTICS**

# THERMAL AND COLD CHAIN

For pharmaceuticals, diagnostics, biologics and temperature-sensitive products, EPS maintains stable conditions during transport and storage. Insulated systems can be aligned to your internal validation requirements and regulatory framework — supporting GDP and cold-chain logistics from 2–8 °C down to deep-frozen ranges. We support documentation and qualification dialogues where required.

**Key Features**

- Insulated box systems and liners
- Inserts for product separation and protection
- Modular formats for varying shipment sizes
- Compatible with PCM and gel-pack systems
- Documentation support for qualified cold chains

MATERIAL WORLDS



#### Typical Applications

Fresh fish and seafood · meat and dairy · fruit and vegetables · industrial intralogistics · handling and load-carrier systems



**CONSISTENT  
PERFORMANCE**

**EFFICIENT  
THROUGHPUT**

**STABLE COLD-CHAIN  
HANDLING AT SCALE**

## FOOD AND INDUSTRIAL LOGISTICS

In fresh-food logistics and industrial high-throughput operations, packaging must protect, insulate and survive daily handling. EPS combines thermal performance with lightweight handling — designed for stacking, fast packing and consistent quality across recurring delivery routes. From producer to point of sale, from line-side tray to long-distance crate.

#### Key Features

- Fresh-food transport boxes and inserts
- Stackable systems for recurring routes
- Trays, load carriers and handling aids
- Adaptable to manual and automated packing
- Hygiene-compliant design where required

MATERIAL WORLDS

**Typical Applications**

Protective helmets · child safety seats ·  
sports and leisure protection ·  
impact-absorbing components ·  
protective inserts and safety systems



**PROVEN PROTECTION**  
**LOW WEIGHT**  
**HIGH PERFORMANCE**  
**READY FOR SERIES**  
**PRODUCTION**

# PEOPLE PROTECTION

In protective applications, materials must absorb impact, remain lightweight and deliver reliable performance every day. EPS combines proven protection with low weight and consistent quality — designed for helmets, child safety seats and other safety-critical applications. From sports and leisure protection to mobility and personal safety solutions.

**Key Features**

- High energy absorption with low weight
- Reliable and consistent protection performance
- Excellent cushioning properties
- Flexible shapes and design options
- Proven solutions for recurring applications
- Suitable for standard and custom-engineered components



# HIRSCH: REeps

CIRCULAR EPS

## EPS PERFORMANCE MADE CIRCULAR

HIRSCH:REeps is the circular evolution of EPS — same proven protection, manufactured with up to 100 % recycled material from our integrated take-back service. Every REeps part keeps valuable resources in the production loop and gives your packaging strategy a credible circular story.

You don't choose between performance and sustainability. REeps delivers the same engineered protection as virgin EPS — for the same applications, with the same design freedom, in the same series quality. The difference is what's inside the bead and what happens after delivery.

## MATERIAL WORLDS

### KEY BENEFITS



#### **Up to 100 % recycled EPS**

Circular material with traceable origin



#### **Same engineered performance**

Identical protection profile to virgin EPS



#### **Integrated take-back service**

Closed loop from delivery to next production cycle



#### **PPWR**

Built to anticipate EU *Packaging and Packaging Waste Regulation* requirements



#### **Same design freedom**

Available across the full EPS application portfolio

#### **Choose virgin EPS when ...**

- ✓ Cost is the primary driver of your packaging decision
- ✓ Recycled content isn't required by your stakeholders or regulations (yet)
- ✓ You need broad standard-format availability with short lead times
- ✓ You're optimizing for high-volume, one-way packaging flows

#### **Choose HIRSCH:REeps when ...**

- ✓ You want to anticipate PPWR requirements before they become mandatory
- ✓ Your customers, retailers or end markets ask for circular packaging proof
- ✓ ESG reporting requires traceable material flows
- ✓ You're building a long-term strategic circular packaging program

**The EU *Packaging and Packaging Waste Regulation* (PPWR) strengthens requirements on packaging waste prevention, recyclability and recycled content. By 2030, mandatory recycled-content quotas apply across most packaging categories. HIRSCH:REeps is engineered to support this transition — with proven EPS performance, recycled feedstock and a closed-loop service that's audit-friendly today.**

# CLOSING THE LOOP TOGETHER

**Turn used EPS parts into valuable secondary raw material — through one coordinated take-back service, designed for industrial packaging flows.**

We support our customers with a practical take-back and recycling pathway: used EPS parts are collected after delivery, returned through coordinated logistics, processed through an efficient recycling route, and reintegrated into new HIRSCH:REeps parts. The result is a closed loop with measurable circular impact.

The service is designed to fit your existing operations — without disrupting receiving, packing or distribution workflows. We work with your team to define collection points, return frequencies and reporting cadence.

Discover our  
recycling process





# HIRSCH:REeps IN YOUR INDUSTRY

We support our customers with a practical take-back and recycling pathway: used EPS parts are collected after delivery, returned through coordinated logistics, processed through an efficient recycling route, and reintegrated into new HIRSCH:REeps parts. The result is a closed loop with measurable circular impact.

This circular approach supports the reduction targets defined through our Corporate Carbon Footprint and provides valuable data for assessing emissions at product level. At the same time, the Product Carbon Footprint

creates greater transparency across the value chain and helps identify further opportunities to reduce the environmental impact of our shape molded part.

The service is designed to fit your existing operations — without disrupting receiving, packing or distribution workflows. We work with your team to define collection points, return frequencies and reporting cadence.





### ELECTRONICS AND WHITE GOODS

Sensitive products meet circular packaging. REeps delivers the same precise inlays, corner protectors and unit-load systems as standard EPS — with up to 100 % recycled content built into the bead. Designed for OEMs and retailers with active PPWR or recycled-content commitments.

#### Customer Driver

PPWR · Recycled-content KPIs · Brand-led sustainability



### PHARMA AND COLD CHAIN

For regulated industries with sustainability mandates, REeps combines validated thermal performance with circular material flows. Documentation supports audit-ready cold-chain logistics and ESG reporting. The circular answer for sectors where compliance and responsibility move in parallel.

#### Customer Driver

ESG roadmaps · Auditable material flows · Sustainability in regulated logistics

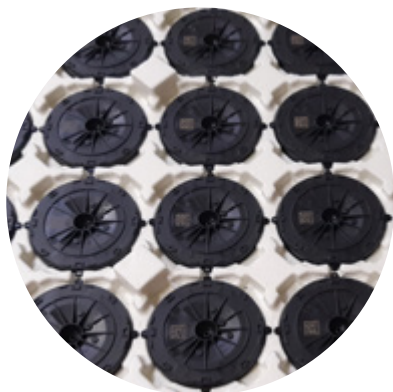


### CONSUMER GOODS AND RETAIL

The HIRSCH:REeps surface turns sustainability into a tangible signal at unboxing. For brands and retailers using circular packaging as a strategic asset, not just a footnote on the back of the box. Where the packaging itself tells the story.

#### Customer Driver

Visible sustainability · Brand storytelling · Retail compliance

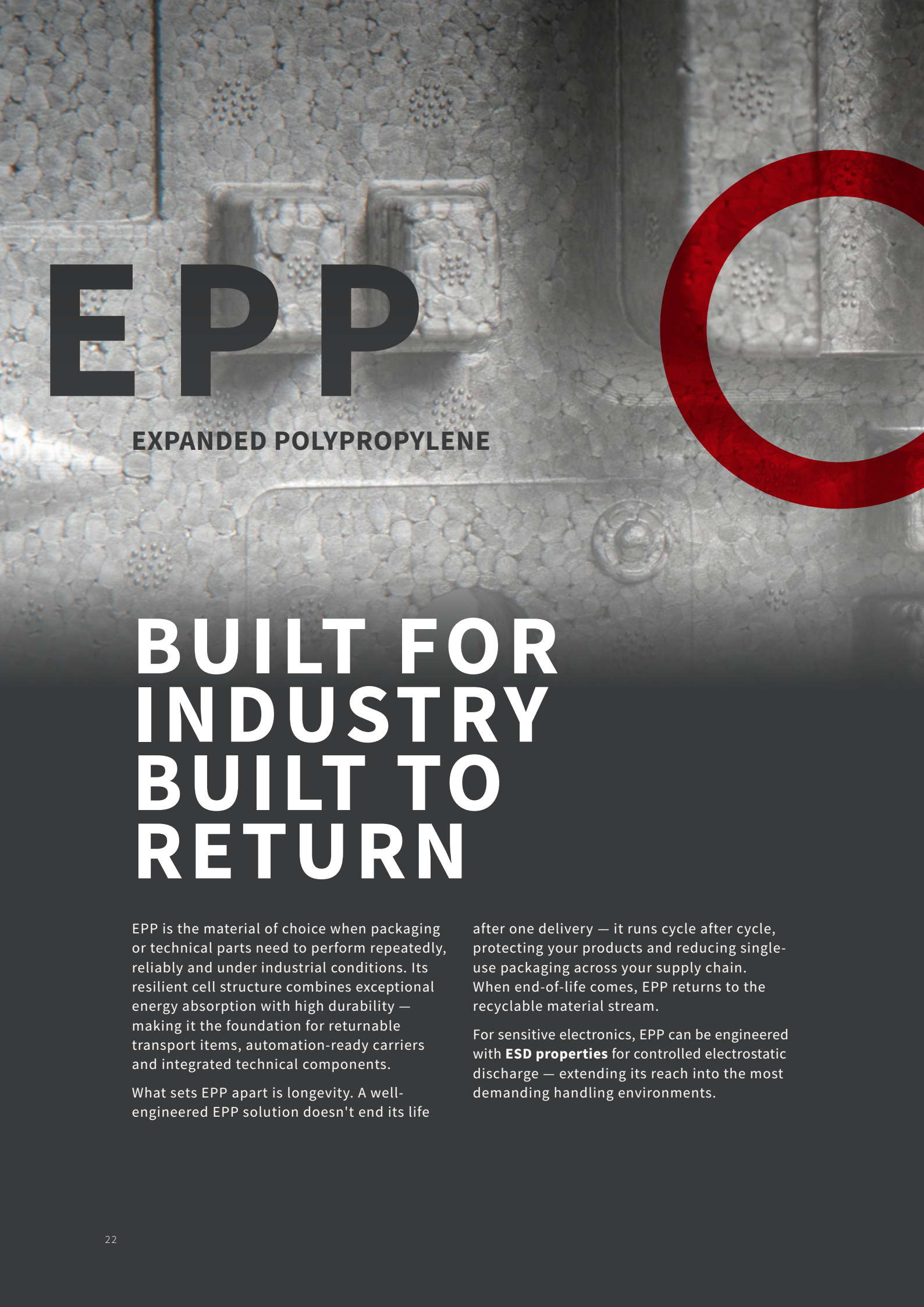


### INDUSTRIAL PACKAGING PROGRAMS

For high-volume customers building long-term circular strategies, REeps integrates into closed-loop systems with reliable supply, predictable take-back and traceable material flows. The strategic option for procurement-led circularity. Built for partnerships measured in years, not orders.

#### Customer Driver

Strategic partnerships · Closed-loop logistics · Traceable material flows



# EPP

EXPANDED POLYPROPYLENE

## BUILT FOR INDUSTRY BUILT TO RETURN

EPP is the material of choice when packaging or technical parts need to perform repeatedly, reliably and under industrial conditions. Its resilient cell structure combines exceptional energy absorption with high durability — making it the foundation for returnable transport items, automation-ready carriers and integrated technical components.

What sets EPP apart is longevity. A well-engineered EPP solution doesn't end its life

after one delivery — it runs cycle after cycle, protecting your products and reducing single-use packaging across your supply chain. When end-of-life comes, EPP returns to the recyclable material stream.

For sensitive electronics, EPP can be engineered with **ESD properties** for controlled electrostatic discharge — extending its reach into the most demanding handling environments.

## MATERIAL WORLDS

### KEY BENEFITS



#### High durability

Built for many reuse cycles under industrial loads



#### Excellent energy absorption and recovery

Protection that returns to shape after impact



#### Lightweight with strong resilience

Efficient logistics and ergonomic handling



#### ESD option available

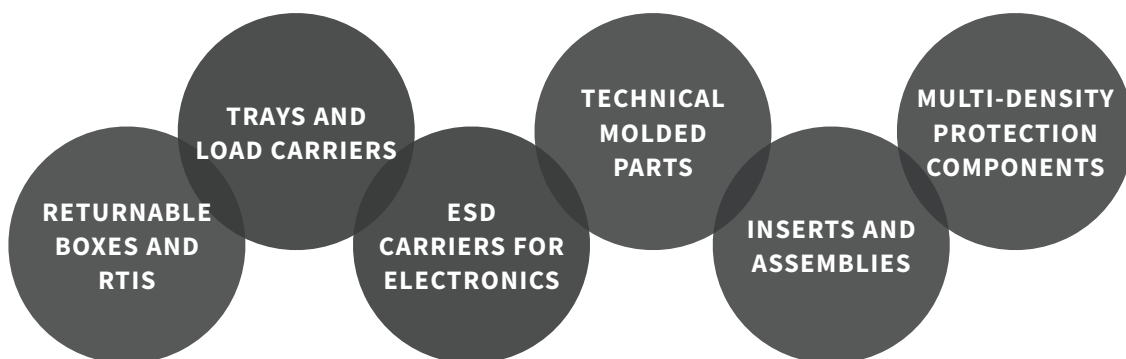
Controlled electrostatic discharge for sensitive electronics



#### Reusable and recyclable

Material that supports closed-loop strategies

### APPLICATION CATEGORIES



### WHEN TO CHOOSE EPP

- ✓ Packaging or parts that run across multiple use cycles
- ✓ Reusable solutions for automotive, intralogistics or industrial flows
- ✓ ESD protection for sensitive electronics handling
- ✓ Energy absorption with shape recovery — not single-use crush
- ✓ A built-in technical component, not just packaging
- ✓ Long-term total cost of ownership rather than per-piece packaging cost



#### Typical Applications

HVAC components and ducting parts · insulation modules · machine-builder components · functional inserts in white goods · light structural elements · noise and damping parts · enclosure liners



**FUNCTIONAL  
INTEGRATION**

**WEIGHT REDUCTION**

**SERIES-READY  
ENGINEERING WITH  
STABLE SUPPLY**

**INSULATION**

## TECHNICAL MOLDED PARTS

EPP enables technical components with integrated function — interfaces, mounting features, inserts, assembly geometries. Lightweight, resilient and engineered for series production, EPP molded parts replace heavier alternatives in HVAC, white goods, machine building and industrial systems. From single complex parts to assembled modules with metal or polymer integrations — designed together, built to your specification.

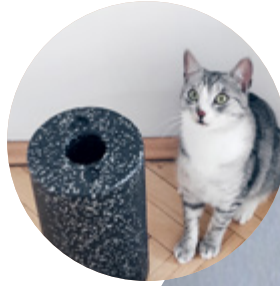
#### Key Features

- Functional integration (interfaces, inserts, assemblies)
- Lightweight components with strong resilience
- Flexible design for complex geometries
- Compatible with metal inserts and over-molded components
- Series-ready manufacturing with stable quality
- Damping and acoustic properties where required



### Typical Applications

Automotive impact absorbers · knee bolsters and bumper cores · pedestrian-protection elements · industrial safety components · helmet liners · seat structures · sports and protective equipment



**PREDICTABLE SHOCK  
ABSORPTION**  
**TUNED PROTECTION  
PERFORMANCE**  
**LIGHTER SYSTEM  
WEIGHT**

## SAFETY AND SHOCK ABSORPTION COMPONENTS

EPP combines excellent energy absorption with shape recovery — making it ideal for impact protection in automotive, industrial and structural applications. Through density selection and multi-density design, response can be precisely tuned to load profiles and protection goals. The result: lighter components, predictable behavior, integration-ready geometries.

### Multi-Density Design

Combine zones of different densities within a single molded part — guiding energy absorption, stiffness and recovery exactly where you need them. From soft cushioning zones to high-density crush structures, in one engineered geometry, in one production step.

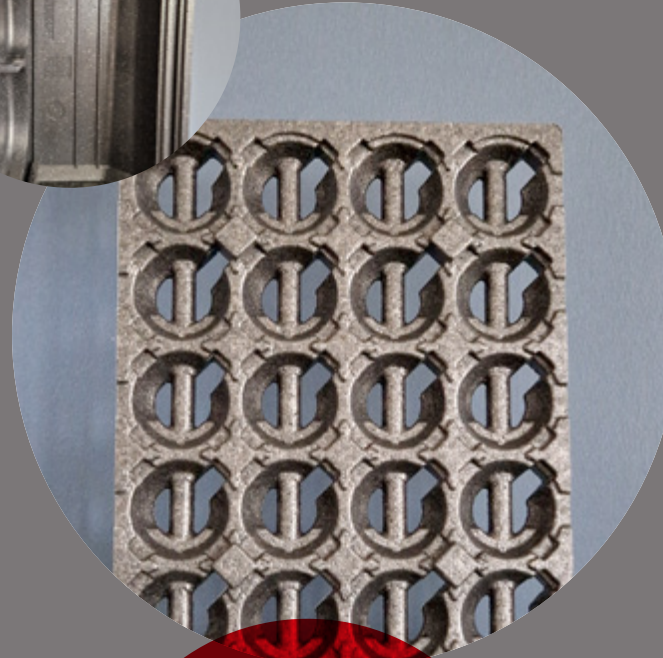
### Key Features

- Strong energy absorption with shape recovery
- Multi-density design for tunable response
- Geometry-driven performance (ribs, crush zones, cavities)
- Lightweight safety solutions
- Integration-ready for assemblies and systems
- Predictable, repeatable behavior across batches



#### Typical Applications

Automotive supply chains · industrial intralogistics · spare-parts distribution · between-plant transport · component handling · battery and module logistics



**LOWER TOTAL COST  
OVER THE LIFECYCLE**

**LESS PACKAGING  
WASTE**

**STABLE,  
PREDICTABLE  
HANDLING**

## RETURNABLE PACKAGING (RTIS)

Returnable transport items remove single-use packaging from your supply chain — and over time, they significantly improve total cost of ownership. EPP RTIs are lightweight, robust and engineered for repeated use across multiple logistics loops. From line-side bin to long-distance transport, they keep products moving and processes stable.

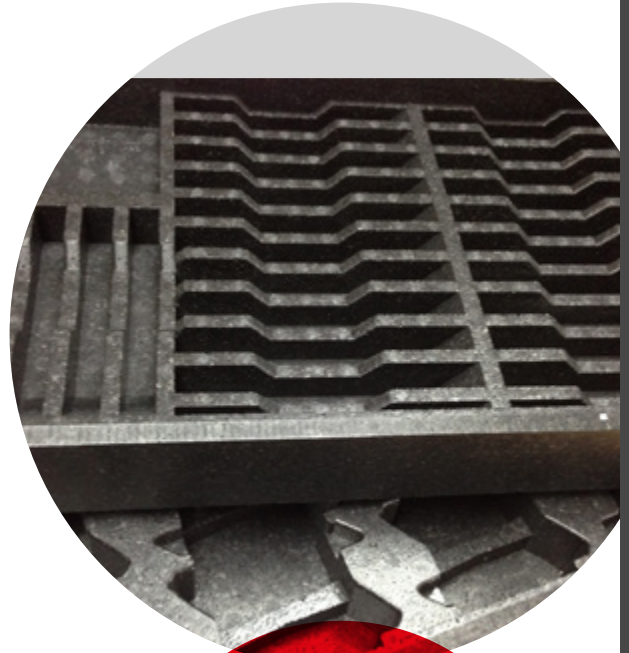
#### Key Features

- High durability across many reuse cycles
- Lightweight handling and reduced freight weight
- Stable stacking and process reliability
- Compatible with standard logistics formats
- Reduced packaging waste in recurring supply chains



### Typical Applications

Electronics assembly lines · automotive component handling · automated warehousing · battery and module carriers · sensitive component logistics · cleanroom environments



**RELIABLE  
AUTOMATION  
THROUGHPUT**

**SAFE HANDLING  
OF SENSITIVE  
ELECTRONICS**

**SCALABLE ACROSS  
HIGH-MIX  
PRODUCTION**

## TRAYS AND LOAD CARRIERS

Automated production and intralogistics demand packaging that behaves consistently — accurate positioning, predictable stacking, reliable gripping and orientation. EPP trays and load carriers are engineered for automation environments, with stable geometries that work for robots and human hands alike. For sensitive electronics, the same carriers can be specified with controlled-discharge properties.

### Engineered for ESD-sensitive electronics

For electronic components, semiconductors and PCB assemblies, EPP carriers can be specified with controlled-discharge properties — protecting your products from electrostatic damage throughout automated handling, transport and storage. Available across the full tray and load-carrier portfolio.

### Key Features

- Stable geometry for repeatable robotic processes
- Lightweight carriers for easier gripping and handling
- Designed for orientation, stacking and cycle integration
- ESD option for sensitive electronic components
- Adaptable to your line layout and takt time



# MOLDED PULP

FIBER-BASED PROTECTION

## NATURAL LOOK ENGINEERED PROTECTION

Molded pulp is a fiber-based packaging solution that combines cushioning performance with structural stability — and a distinctly natural appearance. Manufactured from cellulose fibers, it brings visible sustainability to packaging concepts while delivering reliable protection across handling, transport and unboxing.

Where the packaging is part of the brand story — at retail, at unboxing, in the customer's hands — molded pulp turns protection into communication. Sustainability stops being a side note. It becomes the surface, the feel, the first impression.

For protective applications, molded pulp can be engineered into custom inlays, cushioning structures and complete packaging sets — recyclable in the paper stream, depending on application context.

## MATERIAL WORLDS

### KEY BENEFITS



**Fiber-based,  
natural look & feel**  
Sustainability you  
can see and touch



**Engineered  
protection**  
Robust structures for  
inlays, cushioning and  
assemblies



**Lightweight  
handling**  
Efficient packing and  
shipping

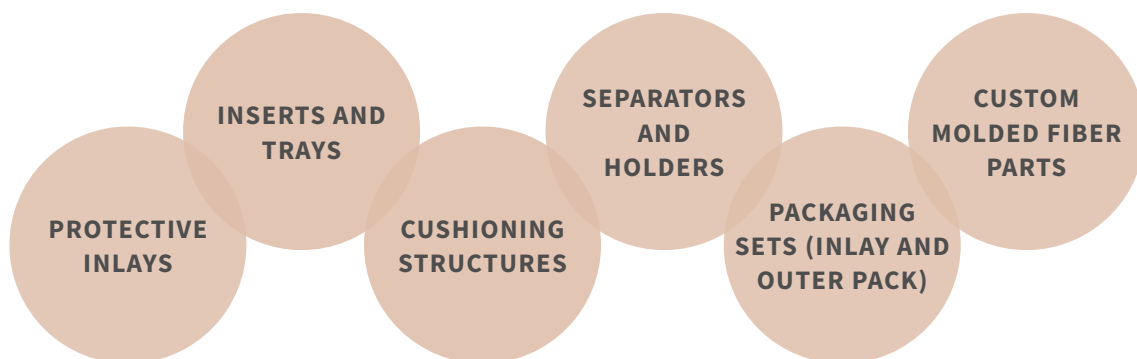


**Recyclable in the  
paper stream**  
(Application-  
dependent)



**Strong fit for B2C and  
brand-facing flows**  
Built for retail,  
unboxing and gifting

### APPLICATION CATEGORIES



### WHEN TO CHOOSE MOLDED PULP

- ✓ Sustainability that's visible and tactile, not just on the spec sheet
- ✓ B2C or retail packaging where the unboxing matters
- ✓ A fiber-based, paper-stream recyclable solution
- ✓ A plastic-avoidance story in your packaging strategy
- ✓ A tactile, natural surface that reinforces your brand position
- ✓ For products < 10 kg

MATERIAL WORLDS

# MOLDED PULP IN YOUR INDUSTRY

**For worlds where fiber-based protection  
becomes part of the brand experience — from  
consumer electronics to premium retail.**

Molded Pulp delivers protection and packaging  
story in one solution — engineered for  
industries where sustainability is visible,  
tactile and aligned with brand promise.





#### CONSUMER ELECTRONICS AND TECH BRANDS

For technology brands committed to plastic-reduction, molded pulp delivers protection and packaging story in one solution. Custom fiber inlays cradle smartphones, accessories and components with a tactile, sustainable signature that resonates from unboxing to social media. The visible alternative to plastic packaging for tech-forward brands.



#### COSMETICS, BEAUTY AND PERSONAL CARE

Premium beauty brands use molded pulp to translate sustainability values into the consumer's hands. Custom fiber trays protect bottles, applicators and luxury products with a natural surface that complements high-end branding. From e-commerce shipping to retail display — fiber works where image matters.



#### PREMIUM RETAIL AND GIFTING

For premium consumer goods, limited editions and gift packaging, molded pulp turns the protective inlay into a sensory element of the brand experience. Custom geometries, surface treatments and tonal variations bring fiber-based packaging into premium retail environments. Sustainable, distinctive, premium-feeling.



#### SUSTAINABLE E-COMMERCE AND D2C

Direct-to-consumer brands and sustainable e-commerce operators choose molded pulp to align packaging with brand promise. Fiber-based inlays protect products in transit, communicate sustainability at unboxing, and integrate with paper-stream recycling. The complete fiber solution for brands where every touchpoint matters.

# DESIGNED TOGETHER

We treat your packaging or technical parts challenge as a development project — not a procurement transaction. Your requirements meet our engineering. Joint validation leads to scalable production. The flow is integrated, the accountability is single, the result is protection that holds up in daily operations.

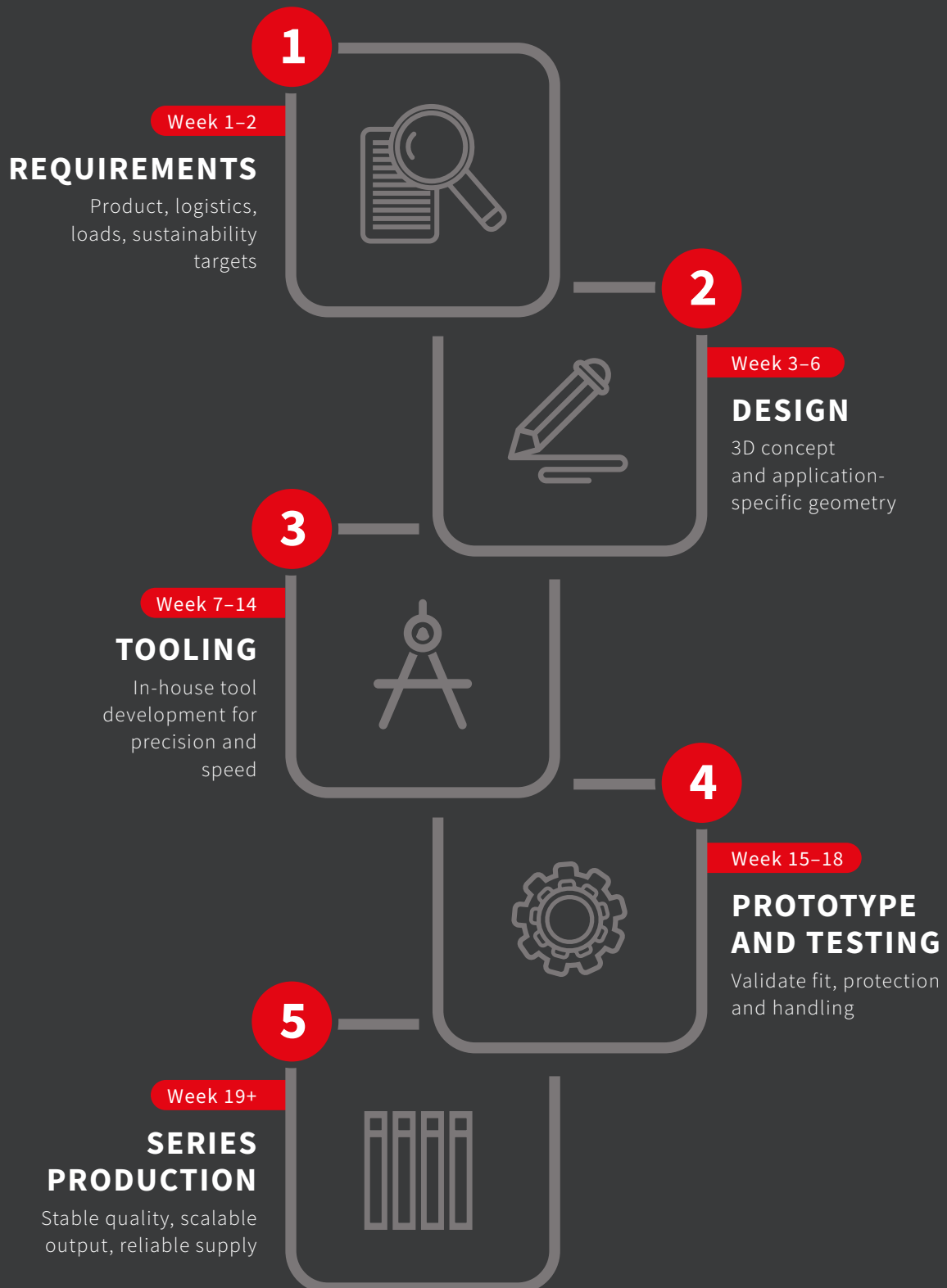
Every project moves through the same five-step flow — from requirements through tooling and validation to series. The depth scales with the complexity of your application. The pace scales with your deadline.

What stays constant: in-house tooling competence, fast iterations, validated performance and one team across the entire path.



## **TOOLING UNDER ONE ROOF**

**IN-HOUSE TOOL DEVELOPMENT FROM CONCEPT TO FIRST PART — TYPICALLY IN WEEKS, NOT MONTHS. DIRECT CONTROL OF GEOMETRY, FIT AND ITERATION SPEED. NO EXTERNAL DEPENDENCIES IN THE CRITICAL PHASE OF YOUR PROJECT.**



HOW WE WORK

# QUALITY THAT PERFORMS EVERY TIME

Engineering protection means delivering it consistently — across batches, across sites, across years. Our process excellence is built on validated workflows, defined quality gates and the discipline to apply them identically wherever a HIRSCH part is produced.

From incoming material checks through in-process control to final inspection, every production stage follows defined standards. The result: stable batch quality, predictable supply performance, consistent behavior in your application — order after order.

These standardized processes also create a reliable data foundation for our Corporate Carbon Footprint and Product Carbon Footprint. Consistent material, production and quality data enable us to identify emission-reduction potential, increase transparency at product level and document progress across sites and production batches.

For customers in regulated industries, our processes generate audit-ready documentation — from material certificates to PPAP-level evidence. Quality you can verify, not just trust.

AVAILABLE WHERE YOUR INDUSTRY REQUIRES IT

- ✓ Full PPAP submission package (Automotive Tier-1)
- ✓ FAT and SAT support (regulated production environments)
- ✓ Material flow certificates (HIRSCH:REeps)
- ✓ Cold chain validation documentation (pharma applications)
- ✓ Customer-specific audit support and on-site quality reviews
- ✓ CO<sub>2</sub> and sustainability reporting data (for ESG disclosures)

WITH EVERY HIRSCH DELIVERY

- ✓ Material declaration and product data sheet
- ✓ Batch traceability and unique lot identification
- ✓ Inspection certificate on request
- ✓ Standard labeling per customer agreement
- ✓ Single point of contact in customer service

# OUR QUALITY PILLARS



## VALIDATION & TESTING

We validate what matters for your application — fit, shock absorption, handling and transport conditions.

**Drop, vibration, compression and thermal testing if required.**



## RELIABILITY & SUPPLY

Stable series processes and planning reliability for consistent delivery performance — across our European production network.

**Multi-site sourcing as a backup option for critical accounts.**



## QUALITY ASSURANCE

Defined checks, traceable workflows and consistent standards across all production sites.

**ISO 9001 • ISO 14001 • IATF 16949**



## DOCUMENTATION & STANDARDS

Clear documentation that supports industrial requirements and internal approvals — at the depth your application demands.

**From material declarations to PPAP submission packages.**

# HIRSCH Porozell



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