



Member of ORLEN Unipetrol Group

ENVITEN
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The **ORLEN Unipetrol** group is the biggest refinery and petrochemical company in the Czech Republic and the country's only crude oil processor. **ORLEN Unipetrol** is an indispensable part of Czech industry, and its specialization gives the group a unique position on the market. **ORLEN Unipetrol** is a significant producer and distributor of fuels, plastics, oils, lubricants, fertilisers and other products. The group also operates the biggest chain of filling stations in the Czech Republic under its ORLEN brand. In 2023, **ORLEN Unipetrol** has integrated into its group the **REMAQ** recycling company, a well-established and fast-growing Czech producer of high-quality recycled plastic granules from industrial and consumer waste.



r-PE, r-PP ENVITEN®

Enviten® is a trademark of **ORLEN Unipetrol RPA** for r-PE and r-PP materials manufactured by Remaq.

PRODUCTION FACILITIES

- **Production line A** – Erema 1714 TVE
- **Production line B** – Coperion STS 96 MC
- **Production line C** – Erema 1514 TVE
- **Production line D** – Coperion STS 96 MC

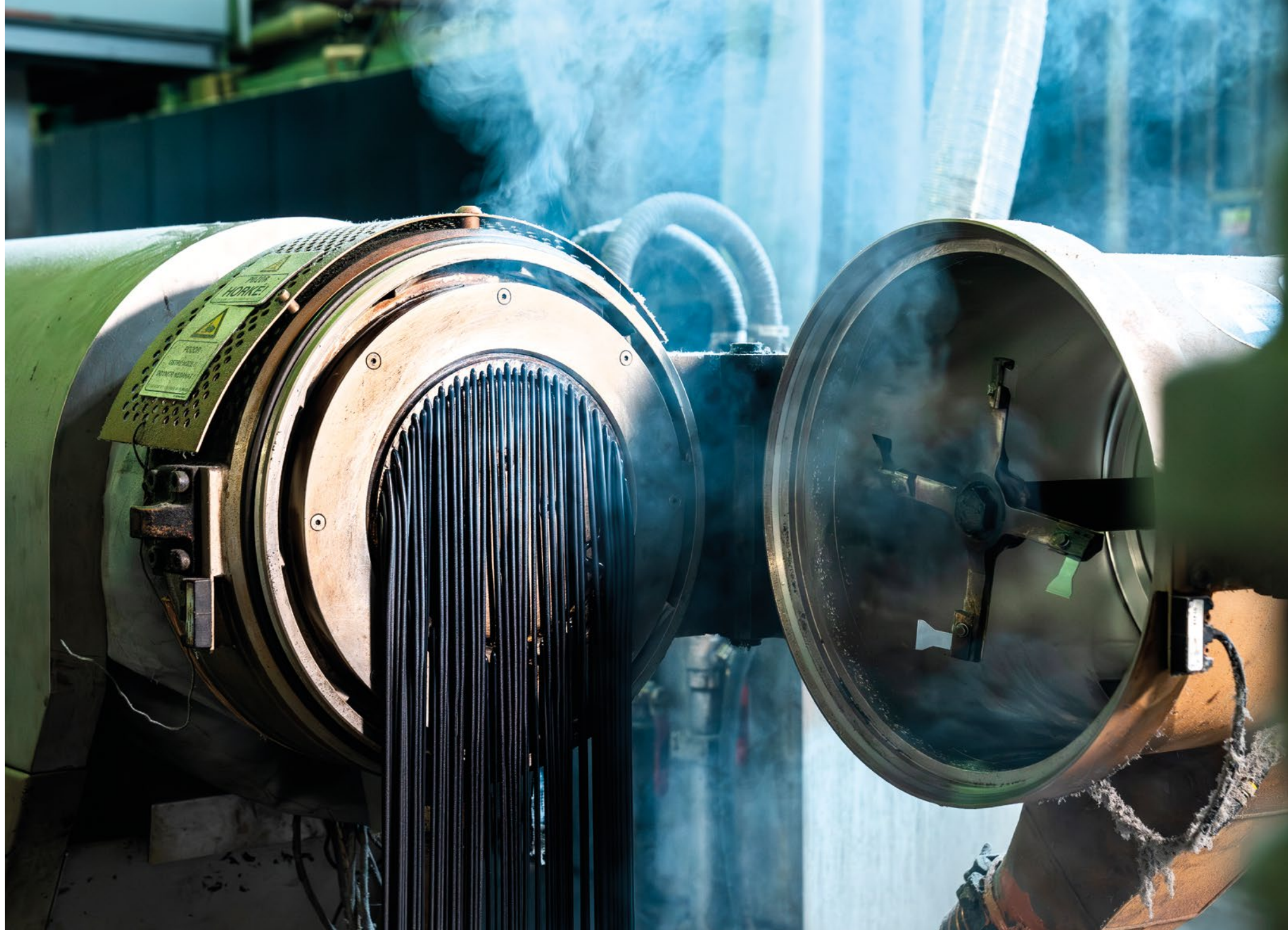
Annual production volume is 50,000 t/year.

Enviten® can be stabilised with a mixture of additives, which prolong its service life.

REMAQ CERTIFICATION

ISO 9001
Certification

ISO 15343:2007



r-PE, r-PP ENVITEN®

STORAGE AND PACKAGING

r-PE, r-PP Enviten® is delivered in the form of pellets in homogenised batches.



PACKAGING:

The material is stored in big bags with a **weather-proof hood**
On **pallet**
Weight is **1 050 kg**



STORAGE:

Stored in a **dry and ventilated roofed warehouse**
Outside up **to 2 months**
Recommended temperture range **-20 °C do +50 °C**



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APPLICATIONS

r-PE ENVITEN®



Injection moulding

- ▶ Crates
- ▶ Pallets
- ▶ Constructions products
- ▶ Garden tools



Extrusion

- ▶ Corrugated pipes
- ▶ Non-pressure pipes
- ▶ Sheets
- ▶ Profiles



Blow moulding

- ▶ Containers up to 10 l
- ▶ Dimpled sheets



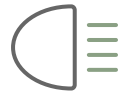
Injection moulding

- ▶ Household articles
- ▶ Tools
- ▶ Office supplies



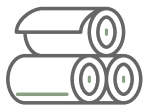
Extrusion

- ▶ Tapes
- ▶ Profiles
- ▶ Sheets



Compounding

- ▶ Automotive
- ▶ Construction



Fibers

r-PP ENVITEN®



Injection moulding

- ▶ Household articles
- ▶ Automotive
- ▶ Construction



Extrusion

- ▶ Sheets
- ▶ Profiles
- ▶ Non-pressure pipes
- ▶ Automotive
- ▶ Packaging



Compounding

- ▶ Automotive
- ▶ Construction



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CONTACTS

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- Provision of basic information on use and technical specifications of the manufactured products
- Consultations regarding workability
- Participation in tests on the customer's site
- Analyses of samples to find the optimum solution
- Measurement and interpretation of flow behaviour of melted polymers
- Identification of customers' technical requirements
- Ordering external tests in test facilities
- Preparation of material specifications and other product documents
- Development and changes in the product portfolio

ORLEN UNIPETROL RPA – POLYMER INSTITUTE BRNO, RESEARCH AND DEVELOPMENT CENTRE

- Structural analyses of polymer matrices
- Analyses of the chemical properties of plastics and composite materials
- Assessment of the stability of polymer during processing
- Determining the service life of a polymer matrix by means of accelerated aging methods
- Optimising stabilisation recipes and their components
- Identifying long-term mechanical properties by means of standard tests or alternative methods on test samples or product

