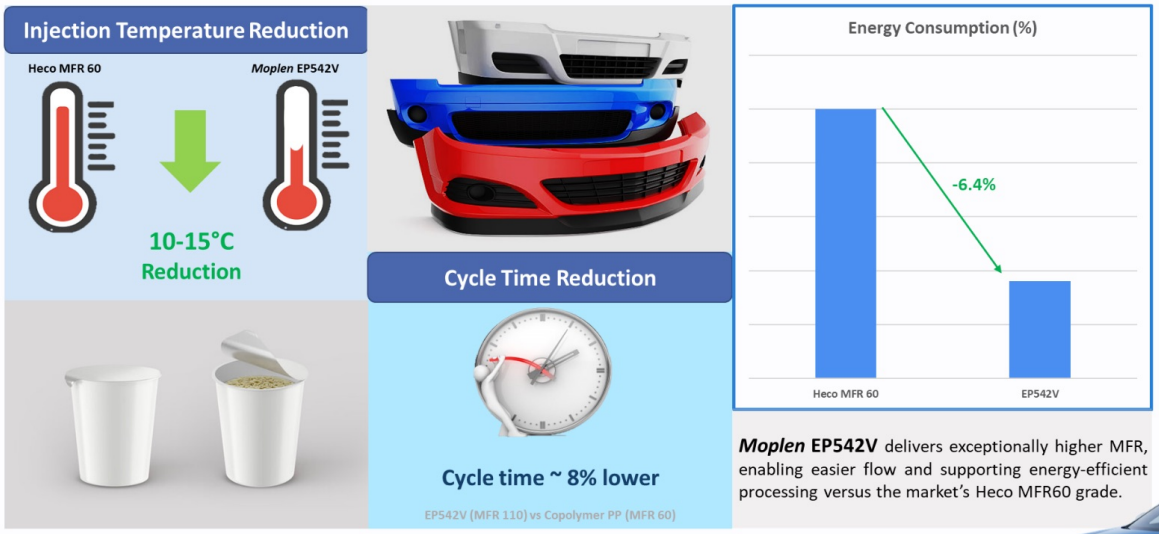
Product Success Story

HMC Polymers

Moplen EP542V

High flow polypropylene block copolymer for Automotive compound

Case Study : energy saving with *Moplen* EP542V



***Moplen* EP542V** delivers exceptionally higher MFR, enabling easier flow and supporting energy-efficient processing versus the market's Heco MFR60 grade.

Key Application and Technical Data

Application :

- **Thin Wall Injection (TWIM) products**
  Cups Plastic containers
- **Automotive compounds**
  Interior and exterior parts
- **Flow promoters in compound building block**

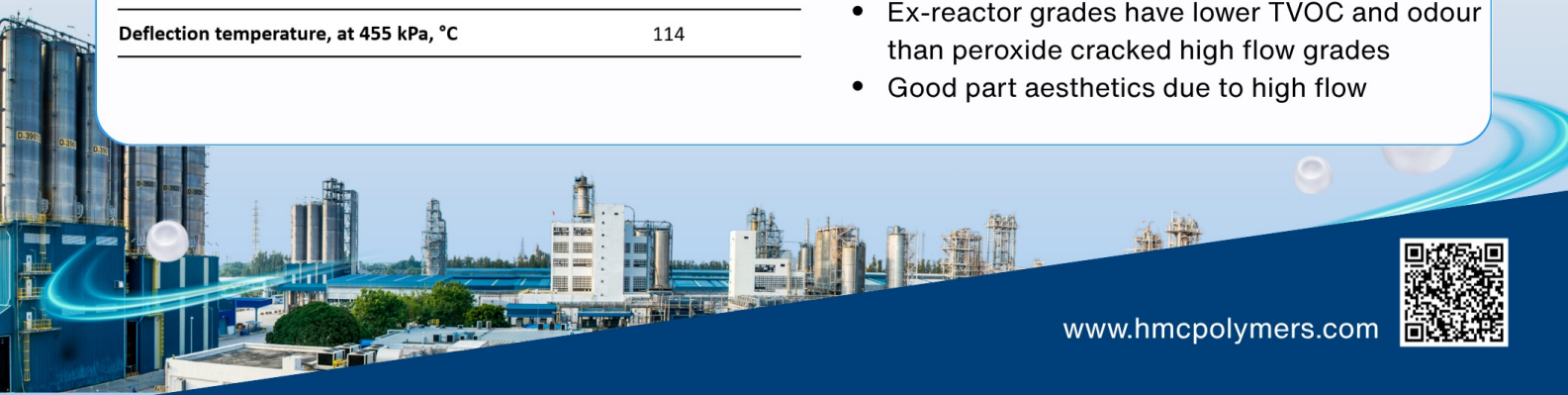
Trends in automotive compounding :

- Light weight / downgauging
- Final MFR of compound increasing without sacrificing mechanical performance
- Lower Total volatile content (TVOC) and odour (mainly for interior components)
- Improved aesthetics / scratch resistance

Properties	Value
Melt flow rate (230°C / 2.16 kg), dg/min	110
Tensile strength at yield, MPa	25
Flexural modulus, MPa	1540
Notched izod impact strength at 23°C, J/m	34
Deflection temperature, at 455 kPa, °C	114

Advantages of ex-reactor high flow PP grades :

- Final MFR of compound can be achieved without flow promoters
- Good building blocks for Filler / glass filled compounds
- Ex-reactor grades have lower TVOC and odour than peroxide cracked high flow grades
- Good part aesthetics due to high flow



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