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Empowering the Automotive Sector to Achieve Sustainability through Recycled Plastics

1 Scrap/ Waste Collection

- Auditing of processes
- Qualification of feedstock materials (Audits)
- Sustainability advisory expertise

2 Chemical / Mechanical Recycling Companies

- Qualification of material
- Process validation with In-line NIR
- Syngas analysis & pyrolysis oil analysis

ELV Compliance Support:

- Material Quality and Consistency Validation
- Validation of decontamination efficiency through analysis and challenge testing
- Qualification of output material: safety, restricted substances, heavy metals, VOCs
- Life Cycle Analyses

3 Chemical Companies

- Carbon footprint/LCA
- Recycled content verification
- Eco-claims verification
- Biodegradability/marine biodegradation
- ISCC plus, GRS, RCS certification

ELV Compliance Support:

- Assessment of virgin v mixed recycled plastic: rheological, physical & chemical properties
- Evaluation of processability
- Testing and assurance for polymer legislation changes

4 T1, T2, T3 Suppliers Parts

- Risk-Based Testing Programs
- Weathering/aging and chemical resistance studies
- Substance identification, e.g. VOC Screening, metals
- Alternative materials vs current established materials
- Recycled content verification, Eco-claims verification
- Performance testing supporting lightweighting, incorporation of production waste and crash testing
- Design for recycling & sustainability consulting

5 OEMs

- Recycled content verification
- Risk assessment on plastic impurities and supply chain information
- Chemical, rheological, physical/failure testing
- Substance identification, e.g. VOC Screening, metals
- Procurement support and certification for supplier



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The new EU End-of-Life Vehicles (ELV) Regulation, which entered into force in August 2026, introduces mandatory recycled plastic content targets of 15% by 2032 and 25% by 2036 for new vehicles, driving increased demand for verified recycled materials and robust testing programmes.

Intertek supports OEMs, suppliers, recyclers and material producers with recycled content verification, material qualification, process validation, compliance testing and sustainability assurance throughout the automotive circular economy.

- Risk-Based Testing Programs: Utilizing expert insight with testing techniques to ensure recycled materials meet safety and performance standards, mitigating risks associated with contaminants like heavy metals and VOCs.
- Quality and Consistency Assurance: Implementing rigorous mechanical properties testing and batch to batch consistency evaluations to ensure reliable recycled plastics.
- Restricted Substance Management: identifying and testing for restricted substances from older vehicle materials, ensuring adherence to safety regulations.
- Material Processability and Lightweighting: Designing evaluation programs to help optimize the processability and lightweighting of materials, supporting the development of efficient, eco-friendly vehicles.
- Specialized VOC Screening: Developing VOC screening methodologies to address safety of recycled materials, ensuring compliance with all specifications and safety requirements. E.g. non-intentionally added or byproducts.

Contact us now to learn more

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