

Automotive Custom Formulated Compounds



LUXUS

Automotive Custom Formulated Compounds



Luxus is a Tier 1 approved supplier with a proven track record, having delivered high-quality automotive polymer compounds to both vehicle and component manufacturers. Our experience and reliability make us a trusted partner in the automotive industry.

We offer environmentally optimised material choices, working alongside you as project partners to provide class-leading technical support. Our material range includes three core categories.

Prime compounds are custom formulated to meet your specific performance and design requirements.

Recycled compounds offer consistent quality from sustainable sources, with colour matched precisely to your needs.

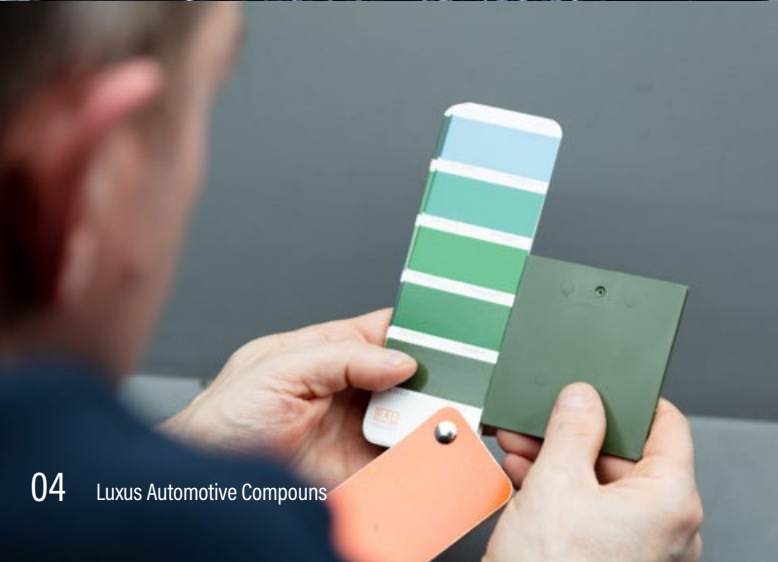
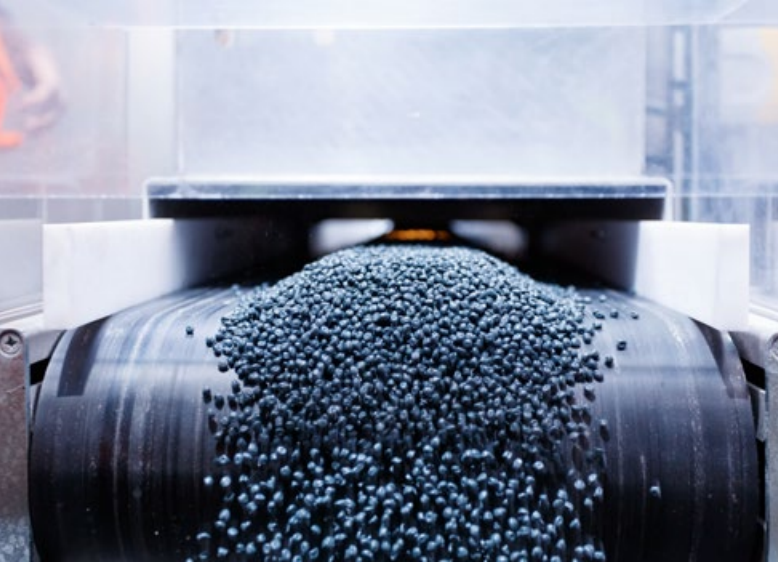
Hybrid materials combine Prime and recycled custom formulated polymer compounds, balancing performance with sustainability.

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08	16077	Polypropylene 30% GF Compound	Battery Trays, Brackets
09	16210	Polypropylene UV Compound	Interior Applications Including Head Rest Pieces
09	16250	Polypropylene 20% MF HI Black Compound	Wheelarch Liners, Brackets, Cover Plates.
10	16254	Polypropylene 18% TF HS Compound	Air Guides, Under Body Splash Guard
10	16256	Polypropylene HS Black Compound	Battery Box
11	16291	Polypropylene 20% MF HI UV Compound	Interior Applications & Gas Injection Handles
11	16303	Polypropylene 15% TF UV Compound	Interior Applications Including Centre Console
12	16343	Polypropylene 20% GF Compound	Glass Coupled. Underbonnet Support Bracket
12	16357	Polypropylene 20% MF HI UV Compound	Tow Eye Cover, Foglight Cover, Number Plate Bracket
13	16398/Uv	Polypropylene 30% GF UV Black Compound	Uv Stabilised Compound For Automotive Applications
13	16406	Polypropylene HI HS Black Compound	Wheel Arch Liners, Splash Shields
14	16425	Polypropylene HI Compound	Stone Deflector, Shock Absorber, Wind Deflector
14	17033	ABS Compound	Suitable For Applications Requiring Good Aesthetic Appearance
15	17077	ABS Grey Compound	Suitable For Applications Requiring Good Aesthetic Appearance
15	19005	Polyethylene HD Compound	General Purpose Grade
16	20003	Polycarbonate Compound	Suitable For Car Sensor Covers
16	114009	PC/ABS Compound	Suitable For Center Console & Mirror Housings

Luxus - Your Partner of Choice from Concept to End of Life

Since our establishment in 1965, we have leveraged decades of technical expertise to collaboratively partner with global customers, delivering a distinctive range of products and services and fostering long-term strategic relationships. Our in-house Technical Centre and team, equipped with leading-edge technology, conducts polymer testing and analysis for clients, constantly seeking ways to enhance compound design.

Additionally, Luxus operates advanced on-site facilities to recycle a wide range of plastics, assisting customers in proactively managing scrap plastic, reducing costs, and minimising environmental impact. Our specialists possess the expertise to develop novel polymers tailored to specific applications. A prime example is Hycolene™, a revolutionary environmentally friendly and lightweight automotive polymer, showcasing the impactful results of our innovative approach



Our Services

Technical expertise that delivers

We are proud to provide our customers with expert technical support, tailored to meet the demands of today's fast-evolving markets.

- Our dedicated Technical Centre, opened in 2014, offers specialist services in analytical testing, plastic testing and polymer development
- We were among the first compounders to invest in technical capabilities in the 1980s, and we've continued to invest to remain consistently ahead of the curve
- Our in-house expertise helps resolve complex material challenges and accelerate innovation for our customers

Customised compounding with precision and purpose

We engineer high-performance customised sustainable thermoplastics using recycled, prime and hybrid polymers, delivering solutions that combine technical excellence with sustainability.

- Our unique approach, Art, Science and Innovation, is rooted in creativity and ensures precision behind every formulation
- We tailor additives, colours and properties to meet the most demanding product specifications
- Exceptional repeatability ensures every compound meets the highest quality standards, time after time
- Whether in automotive, consumer goods or any other industrial applications, we deliver products and performance you can rely on

Industry-leading plastic recycling

Our advanced recycling capabilities make us one of the UK's leading providers of sustainable plastic waste solutions.

- Complete plastic waste management, including both closed and open loop systems
- We handle a broad range of rigid and film materials, including HDPE, MDPE, LDPE, PP, PC and ABS
- Our recycling solutions deliver measurable environmental and commercial benefits, supporting the UK's aspiration to develop an effective circular plastics economy

Automotive Customised Compounds

Luxus is a Tier 1 approved supplier with a proven track record having delivered technical development and customised polymer solutions to vehicle and component manufacturers.

Our polymer compounds are available in customised grades, including mineral and glass-filled options. Our advanced systems are designed to meet sustainability, cost, and technical standards. Luxus is also actively involved in projects developing lighter compounds and scratch-resistant materials with recycled content to help drive a circular plastics economy.

We excel in precise colour matching and often collaborate closely with customers to colour match to tight specifications and frequently work with customers to develop compounds for individual applications.



Exterior

- Under body air guides
- Engine Compartment Air Guides
- Gas Injected Handles
- Number Plate Brackets
- Fog Lamp Covers
- Bumper Support Brackets
- Bumpers
- Tow Eye Cover
- Battery Boxes
- Alarm Covers
- Radiator Shroud
- Wheel Arch Liners
- Support Brackets

Interior

- A surface, visual and non visual
- Glove Box
 - Cowl Tops
 - Rear Door Panels
 - Hearest Guides
 - Luggage Side
 - Centre Console
 - Luggage Floor
 - Storgae Trays
 - Carpet Supports
 - Door Sill Covers
 - Instrument Binnacle



Type:
16052

Polypropylene Compound

16052 is a black Polypropylene recycled compound for injection moulding, typically used for auto trim, luggage area base and under carpet support.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	9-13	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	7-15	kJ/m²
Izod Impact, Notched	-20°C, 5.5J	ISO 180	>2.5	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO/R 527	770-950	N
Tensile Strength (Peak)	23°C, 100mm/min	ISO/R 527	18-24	N/mm²
Tensile Strain (Break)	23°C, 50mm/min	ISO/R 527	>18	N/mm²

Type:
16077

Polypropylene 30% GF Compound

16077 is a black, high-stiffness, 30% glass fibre-filled Polypropylene recycled compound, typically used for injection moulded automotive components including battery trays and brackets.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	7-15	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	6-12	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO/R 527	2450-2750	N
Tensile Strength (Peak)	23°C, 100mm/min	ISO/R 527	60-69	N/mm²
Tensile Strain (Break)	23°C, 100mm/min	ISO/R 527	4	N/mm²
Shrinkage	23°C, 5 mins	Internal Test	0.3-0.7	%

Type:
16210

Polypropylene UV Compound

16210 is a PG05 black Polypropylene compound from a homogeneous mix of recycled and virgin materials, with a UV stability package, typically used for injection moulded interior automotive applications including head rest pieces.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	22-29	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	>7	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO/R 527	>800	N
Flexural Modulus	23°C, 10mm/min	ISO 178	>1000	N/mm²
Heat Deflection Temperature	F/W, 0.45MPa, 120°C/h	ISO 75	>70	°C
Gloss	23°C, Textured	Internal Test	1.9-2.5	GU

Type:
16250

Polypropylene 20% MF HI Black Compound

16250 is a black, high-impact, 20% mineral-filled Polypropylene recycled compound typically used for injection moulded, covered exterior automotive applications including wheel arch liners, brackets and cover plates.

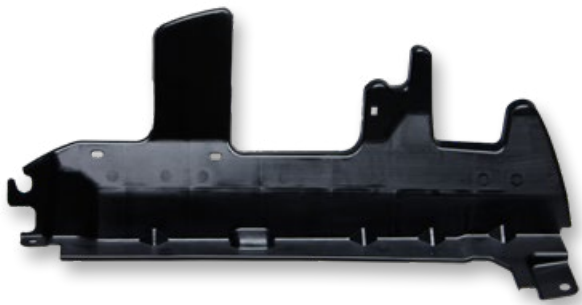


Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	17-22	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180/1A	18-27	kJ/m²
Izod Impact, Notched	-40°C, 5.5J	ISO 180/1A	>2	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO 527/1A	600-750	N
Bending Modulus	23°C, 10mm/min	ISO 178	900-1500	N/mm²
Heat Deflection Temperature	F/W, 0.45MPa, 120°C/h	ISO 75	>70	°C

Type:
16254

Polypropylene 18% TF HS Compound

16254 is a black, medium-stiffness, 18% talc-filled Polypropylene recycled compound with good flow properties and a high-heat stability package, typically used for injection moulded under bonnet and air guides.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	18-22	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	4.5-8	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO/R 527	800-950	N
Tensile Strength (Peak)	23°C, 100mm/min	ISO/R 527	20-24	N/mm²
Bending Modulus	23°C, 10mm/min	ISO 178	1240-1550	N/mm²
Heat Deflection Temperature	F/W, 0.45MPa, 120°C/h	ISO 75	>80	°C

Type:
16256

Polypropylene HS Black Compound

16256 is a black Polypropylene recycled compound with a high-heat stability package, typically used for injection moulded under bonnet automotive applications including battery boxes.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	9-13	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180/1A	7-15	kJ/m²
Tensile Strength (Peak)	23°C, 100mm/min	ISO 527/1A	740-950	N/mm²
Tensile Strain (Break)	23°C, 100mm/min	ISO 527/1A	>18	N/mm²

Type:
16291

Polypropylene 20% MF HI UV Compound

16291 is a PG05 black, high-impact Polypropylene compound from a homogenous mix of recycled and virgin materials, with a UV stability package, typically used for injection moulded interior automotive applications & Gas injection handles.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	18-26	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	>12	kJ/m²
Izod Impact, Notched	-40°C, 5.5J	ISO 180	>1.7	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO/R 527	700-850	N
Tensile Strength (Peak)	23°C, 100mm/min	ISO/R 527	18-22	N/mm²
Heat Deflection Temperature	F/W, 0.45MPa, 120°C/h	ISO 75	>70	°C

Type:
16303

Polypropylene 15% TF UV Compound

16303 is a black, 15% talc-filled Polypropylene compound from a homogenous mix of recycled and virgin materials, with good flow properties and a UV stability package, typically used for injection moulded automotive interior applications including centre consoles.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	22-28	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	5-10	kJ/m²
Izod Impact, Notched	-40°C, 5.5J	ISO 180	>1.7	kJ/m²
Bending Modulus	23°C, 10mm/min	ISO 178	1250-1750	N/mm²
Gloss	23°C, Textured	Internal Test	1.9-2.5	GU
Colour Delta E	Smooth, SCI, D65, 10°		<0.6	

Type:
16343

Polypropylene 20% GF Compound

16343 is a black, high-stiffness, 20% glass fibre-filled Polypropylene recycled compound, typically used for injection moulded automotive components including under bonnet support brackets.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	7-15	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	5.5-12	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO/R 527	1850-2500	N
Tensile Strength (Peak)	23°C, 100mm/min	ISO/R 527	45-69	N/mm²
Tensile Strain (Break)	23°C, 100mm/min	ISO/R 527	>4	N/mm²
Shrinkage	23°C, 5 mins	Internal Test	0.3-0.7	%

Type:
16357

Polypropylene 20% MF HI UV Compound

16357 is a black, high-impact, 20% mineral-filled Polypropylene virgin compound with good flow properties and a UV stability package, typically used for injection moulded automotive exterior applications including tow eye covers, foglight covers and number plate brackets.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	18-26	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	>12	kJ/m²
Izod Impact, Notched	-40°C, 5.5J	ISO 180	>1.7	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO/R 527	700-850	N
Tensile Strength (Peak)	23°C, 100mm/min	ISO/R 527	17-22	N/mm²
Heat Deflection Temperature	F/W, 0.45MPa, 120°C/h	ISO 75	>70	°C

Type:
16398/UV

Polypropylene 30% GF UV Black Compound

16398/UV is a black, high-stiffness, 30% glass fibre-filled Polypropylene recycled compound with a UV stability package, typically used for injection moulded automotive exterior components.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	7-15	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180/1A	12-16	kJ/m²
Izod Impact, Notched	-30°C, 5.5J	ISO 180/1A	>4	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO 527/1A	1800-2700	N
Tensile Strength (Peak)	23°C, 100mm/min	ISO 527/1A	44-69	N/mm²
Flexural Modulus	23°C, 10mm/min	ISO 178	>3600	N/mm²

Type:
16406

Polypropylene HI HS Black Compound

16406 is a black, high-impact Polypropylene recycled compound with a high-heat stability package, typically used for injection moulded under bonnet automotive applications including wheel arch liners.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	10-20	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180/1A	10-20	kJ/m²
Izod Impact, Notched	-20°C, 5.5J	ISO 180/1A	>3.75	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO 527/1A	740-850	N
Tensile Strength (Peak)	23°C, 100mm/min	ISO 527/1A	18-22	N/mm²
Heat Deflection Temperature	F/W, 0.45MPa, 120°C/h	ISO 75	>60	°C

Type:
16425

Polypropylene HI Compound

16425 is a black, very high-impact Polypropylene compound from a homogenous mix of recycled and virgin materials, typically used for injection moulded under bonnet automotive applications including stone deflectors and wind deflectors.

Property	Conditions	Standard	Specification	Units
Melt Flow Index	230°C / 2.16kg	ISO 1133	10-20	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	>40	kJ/m²
Izod Impact, Notched	-20°C, 5.5J	ISO 180	>9	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO/R 527	600-800	N
Tensile Strength (Peak)	23°C, 100mm/min	ISO/R 527	15-20	N/mm²
Bending Modulus	23°C, 10mm/min	ISO 178	>500	N/mm²



Type:
17077

ABS Compound

17077 is a grey, Acrylonitrile Butadiene Styrene recycled compound with a UV stability package, for injection moulding applications with moderate-UV exposure and good aesthetic appearance.

Property	Conditions	Standard	Specification	Units
Melt Flow Index	220°C / 10kg	ISO 1133	20-43	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180/1A	>6	kJ/m²
Tensile Load (Peak)	23°C, 50mm/min	ISO 527/1A	>1200	N
Tensile Strength (Peak)	23°C, 50mm/min	ISO 527/1A	>30	N/mm²
Tensile Strain (Break)	23°C, 50mm/min	ISO 527/1A	>10	N/mm²
Gloss	23°C, Smooth	Internal Test	>45	GU



Type:
17033

ABS Compound

17033 is a black, Acrylonitrile Butadiene Styrene recycled compound for injection moulding applications with good aesthetic appearance.

Property	Conditions	Standard	Specification	Units
Melt Flow Index	220°C / 10kg	ISO 1133	7-30	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	>10	kJ/m²
Tensile Load (Peak)	23°C, 50mm/min	ISO/R 527	>1200	N
Heat Deflection Temperature	F/W, 1.8MPa, 120°C/h	ISO 75	>70	°C



Type:
19005

Polyethylene HD Compound

19005 is a black, High-density Polyethylene recycled compound for injection moulding applications.

Property	Conditions	Standard	Specification	Units
Melt Flow Index	190°C / 2.16kg	ISO 1133	>4.5	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	>3.5	kJ/m²
Tensile Load (Peak)	23°C, 100mm/min	ISO/R 527	>650	N
Tensile Strength (Peak)	23°C, 100mm/min	ISO/R 527	>16	N/mm²
Tensile Strain (Break)	23°C, 100mm/min	ISO/R 527	>40	N/mm²



Type:
20003

Polycarbonate Compound

20003 is a black, Polycarbonate recycled compound for injection moulding applications.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	300°C / 1.2kg	ISO 1133	10-35	g/10 mins
Izod Impact, Notched	23°C, 5.5J	ISO 180	>16	kJ/m²
Tensile Load (Peak)	23°C, 50mm/min	ISO/R 527	>2000	N
Tensile Strength (Peak)	23°C, 50mm/min	ISO/R 527	>49	N/mm²
Tensile Strain (Break)	23°C, 50mm/min	ISO/R 527	6	N/mm²

Type:
114009

PC/ABS Compound

114009 is a black, high-impact PC/ABS compound from a homogenous mix of recycled and virgin materials, typically used for injection moulding applications including automotive components.



Property	Conditions	Standard	Specification	Units
Melt Flow Index	260°C / 5kg	ISO 1133	8-20	g/10 mins
Izod Impact, Notched	23°C, 2.75J	ISO 180	>35	kJ/m²
Izod Impact, Notched	-40°C, 2.75J	ISO 180	>15	kJ/m²
Tensile Strength (Peak)	23°C, 50mm/min	ISO/R 527	43-51	N
Bending Modulus	23°C, 10mm/min	ISO 178	>1800	N/mm²

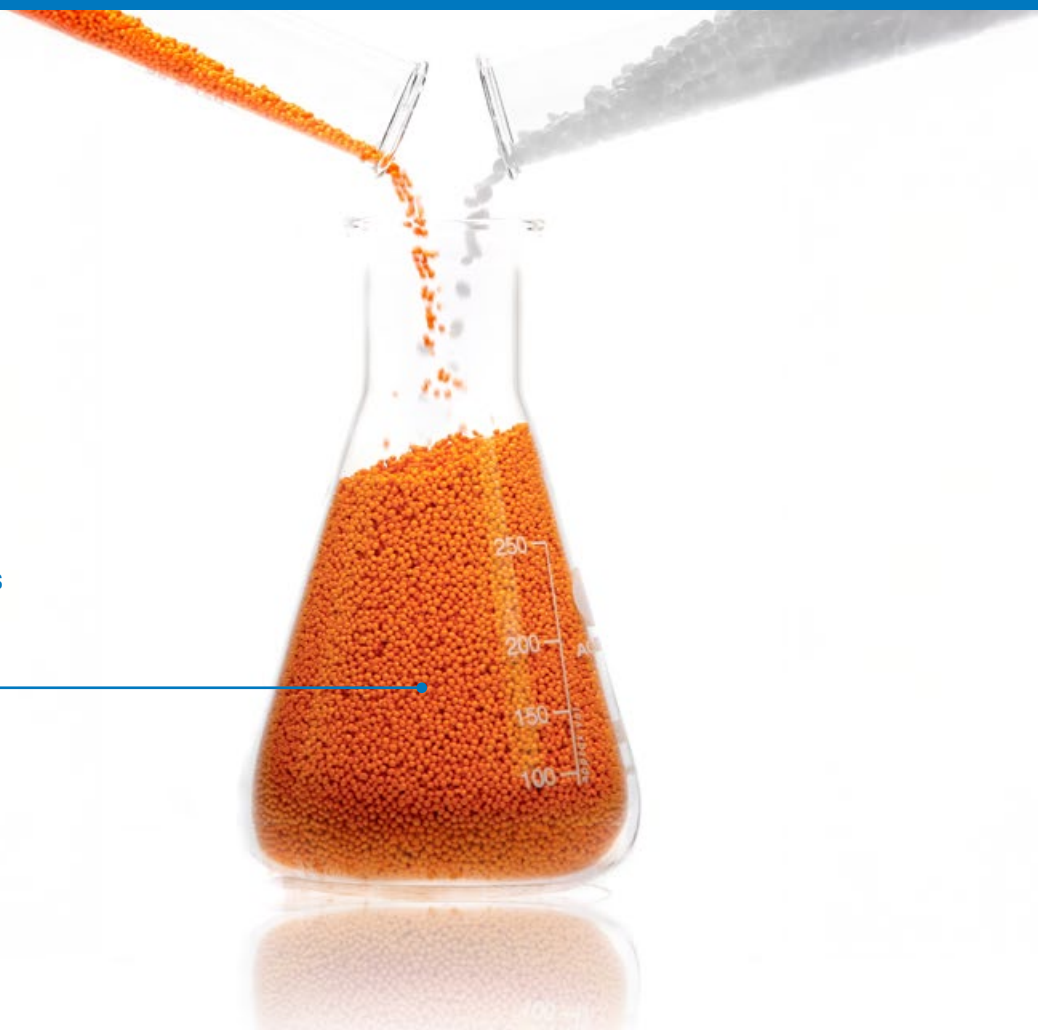
LUXUS

Bespoke solutions that are built around you

In addition to polymer compound, we offer a range of specialist additive masterbatches including:

- Infra-red reflective (IR) systems to reduce IR heat conduction
- Near infra-Red (NIR) Black to allow easy polymer detection at end of life
- UV Stabilisation packages
- Special Lubrication packages
- Custom formulated additives to resolve a technical challenge
- High Dispersion rate colorants & additives

A 1.2mm micro-pellet that is designed to disperse easily at low addition rates



Driving Sustainability in the Automotive Industry

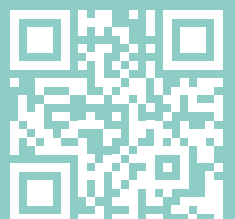
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from concept to delivery



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