





Automotive Supplier Line Card

MATERIAL SOLUTIONS DRIVING THE FUTURE





Solid, Trusted, Proven

At Formerra, we are continually transforming ideas into next-generation solutions, generating momentum to keep us all moving forward and redefining a new era of materials distribution. Led by a dedicated team of experts, we provide unparalleled industry knowledge, supply chain excellence and ingenuity. OEM, tier supplier or molder—at any point in the automotive process, we have resources and capabilities available to help you from design realization to mass production.

































Reimagining the Automotive Industry

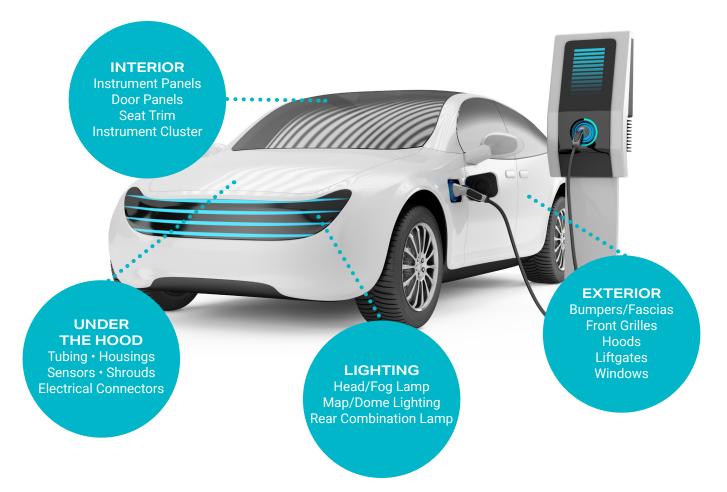
The automotive industry has experienced an inflection point with nearly all OEMs pivoting to offer electric vehicles. With the drive towards electrification of their product portfolio, vehicles are not only becoming less petroleum-dependent, but they are increasingly becoming smart, connected and data-driven. As a result, the pressure is on for next-generation materials that are more lightweight, provide increased durability,



improve heat resistance and are more sustainable. Navigating the demand for materials that can balance all of these requirements can be complex, but with Formerra's technical and industry experience, expansive material portfolio and reliable supply chain helping to simplify the process, Formerra can help OEMs and Tier Suppliers with the demands of today as well as the designs of tomorrow.

ADVANCED MOBILITY

Tubing • Housings • Fender Liners • Sensors Shrouds • Gaskets & Seals



					FOCUS APPLICATIONS				
Product Family	Supplier	Product Name	Product Descriptions & Typical Applications	Lighting	Interior	Exterior	Under The Hood	Advanced Mobility	
Acetal (POM)	DuPont	Delrin [®]	High strength, rigidity and toughness. Used in gears, seat belt buckles, housings, latches, parts needing lubricity, and wear-resistant surfaces.	х	х	х	х	х	
Acrylic (PMMA)	Trinseo	Plexiglas® Plexiglas® Frosted Plexiglas® Reflect*	Transparent, rigid thermoplastic used as a shatterproof replacement for glass. UV & abrasion-resistant, excellent light transmission used in lenses (headlights, tail lights, turn signals, instrument clusters, autonomous driving sensors, etc.), mirror housings, interior lighting, instrument panel optics, lightpipes, pillar/spoiler trim, badging, style lighting, light guides, reflectors, interior/exterior lighting, bumpers and fenders.	x	x	x		x	
Acrylonitrile Butadiene Styrene (ABS)	INEOS Styrolution	Lustran® Novodur® Terluran®	Opaque thermoplastic and amorphous polymer with strong corrosion and impact resistance. Used in door switch bezels, badging, trim (door panels, chrome-plated interior, sill plate, etc.), center console trays, mirror skull caps and exterior light housings.	x x	x x x	x x x	х	x x	
ABS Blends	INEOS Styrolution	Terblend® N, Triax®	Enhanced processability, good flow characteristics, strength, stiffness and good heat resistivity plastic used in electrical device housings, automotive interior components, truck cabin components.		х			х	
Acrylonitrile Styrene Acrylate (ASA)	INEOS Styrolution LyondellBasell	Luran® S Centrex®	Amorphous thermoplastic with improved weather resistance used in fascia brackets, mirror housings, grille carriers, fog light bezels, pillar trim, hood vents, emblems, roof rails, upper and lower spoilers (painted and unpainted), door panel trim, seat trim, 3D printed parts, etc.	х	x	x	х	х	
ASA Blends	INEOS Styrolution	Terblend® S Centrex®	Characterized by their excellent impact strength and heat stability, similar to PC/ABS compounds. The ASA component, however, features superior UV stability which makes them well-suited for interior and exterior trim components. Offers good flow, high sound-absorption, enhanced impact strength and excellent chemical resistance.		x	x		x	
Bio-Fiber Reinforced Thermoplastic Polyolefin (TPO)	RheTech, Inc.	RheVision	Bio-fiber reinforced thermoplastic compounds, used in various interior applications.		х			х	

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Product Family	Supplier	Product Name	Product Descriptions & Typical Applications	Lighting	Interior	Exterior	Under The Hood	Advanced Mobility
Color, Additives & Inks	Avient	CESA [™]	Portfolio of polymer additives which enhance			х		
		ColorMatrix [™] Excelite [™]	part performance, improve manufacturing efficiency, reduce manufacturing		х			
		Hydrocerol [™]	downtime and enable smooth product transitions. Also		X	Х		
		OnColor [™]	includes a wide variety of color match and mold in color		х	х		
		Remafin ^{**}	options for enhanced interiors, effects and other unique		X		X	
		Renol [™]	characteristics.		х	х	х	
		Smartbatch [™]			х	х		
		Smartbatch [™] FX			х	х	х	
High Density Polyethylene (HDPE) Compounds	GEON Performance Solutions	GEON [®]	HDPE is known for its large strength-to-density ratio and is used to manufacture batteries, different kinds of tanks (oil,		Х			
	Chevron Phillips	Marlex®	brake fluid, washer fluid, etc.), interior linings, bumpers, seats,		Х		Х	
	Dow	Dowlex [®]	storage inner compartments, trims, and other accessory components, including inner and outer protective covers and fixing elements.		X		X	
Masterbatch	DuPont	Siloxane Masterbatch	Additive to aid with part release from mold, material flow and adding lubricity to parts, anti-scratch for vehicle interior components.		Х			
Nylon (PA 6, PA 66, PA 66/6, PA 66/6T, PA	Arkema	Rilsamid®	Good chemical and temperature resistance; provides strength,				Х	
612, PA 11, PA 12, PA 1010)		Rilsan®	toughness, and stiffness; and resists wear and abrasion. Used in applications such as intake		Х		Х	
	Avient	Nymax [™]	manifolds, radiator end tanks, engine covers and shrouds, air		х	х	х	
		Nymax [™] PIR	ducts, underhood enclosures, motor encapsulations,		x	x	x	
		reSound™ R ND	thermostat housings, fuel cut off valves, solenoid		х			
	Celanese	Zytel®	encapsulations, air cleaner boxes, electrical connectors and sensor bodies.	х	Х	х	х	х
Polycarbonate (PC) & PC Blends (PC+ABS,	Covestro	Bayblend®	Strong, tough materials and some grades are optically	х	х	Х		х
PC+ASA, PC+SAN, PC+PBT, PC+PET,		Makroblend®	transparent. They are easily worked, molded, and			х		х
PC+TPU)		Makrolon®	thermoformed and used in headlight assemblies, impact	х	х	х		х
		Texin®	resistant body panels, small windows, door panel and	х	x	х	x	х
	Trinseo	CALIBRE [™] , CALIBRE [™] MEGARAD [™]	exterior trim, multi-function displays, heat stakes (TC), car bumpers, molded in color	х		х		
		EMERGE [™]	interior components, battery modules, roof trim, seat back	х	X	х	х	
	INEOS Styrolution	Luran® SC	trim panels, bezels, heat sinks, signature lighting and more.			х		
	-	Novodur [®]		х	х	х	х	х

					FOCUS APPLICATIONS			
Product Family	Supplier	Product Name	Product Descriptions & Typical Applications	Lighting	Interior	Exterior	Under The Hood	Advanced Mobility
High Heat Polycarbonate (HHPC)	Covestro	Apec [®]	Provides outstanding transparency and brilliance paired with a high resistance to heat. Excellent high-gloss surface for applications requiring metallization. This linear, amorphous copolycarbonate can withstand temperatures between approximately -30°C and approximately 150°C for extended periods. It is also tough and resistant to impact. Used in covers for brake lights and indicator lights, headlamp reflectors/bezels, etc.	x	х	x		x
Polybutylene Terephthalate (PBT)	Celanese	Crastin [®]	Semi-crystalline engineering thermoplastic that offers weight and cost savings used in electrical connectors, mirror housings, cowl vents, handles, fans, fuel system components, fuse boxes, sensor housings, ingition system components, windshield wiper covers, manual shifter pivot components, etc.	х	х		х	x
Polyethylene Terephthalate (PET)	Celanese	Rynite [®]	Lightweight, glass-reinforced composition, dimensional stability, durability, and highgloss finish, used across a wide range of applications, particularly as a replacement for die-cast metals and thermosets. Coil bobbins, solenoid encapsulations, wiper arms, lamp sockets, electrical connectors, control knobs, housings, covers, brackets. Makes electrical devices, photovoltaic panels, switches, and other critical energy components stronger and reliable.	x	x			x
Polyphthalamide (PPA)	Celanese	Zytel® HTN	High performance, high temperature resistant plastic that can replace aluminum in complex automotive components.				х	х

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Product Family	Supplier	Product Name	Product Descriptions & Typical Applications	Lighting	Interior	Exterior	Under The Hood	Advanced Mobility
Polypropylene (PP)	INVISTA	INVISTA [™]	The most frequently used		х	Х	х	Х
& PP Blends (Alloy, Compounds, Copolymer)	GEON Performance Solutions	GEON®	of any plastic in automotive manufacturing due to its execellent formability, excellent chemical, heat and impact resistance. Typically found in bumpers, gas tanks, carpet fibers, instrument panels,	х	х	х	х	
	INEOS Olefins & Polymers	INEOS®			Х			
	LyondellBasell	Hifax®	interior trim components, fender liners, seating, bumper fascias,		Х	Х		
		Hostacom®	battery cases, rocker panels, scuff plates, cowl grilles, lamp	Х	Х	x	X	
		Pro-fax®	housings, spalsh shields, door trim, trunk liners, etc.		Х	х	Х	
		Softell®	trim, trunk liners, etc.		Х			
	Pinnacle Polymers	Pinnacle PP			Х	Х	Х	х
	RheTech, Inc.	RheComp		Х	Х	х	Х	Х
Specialty Formulations	Avient	Complēt [™]	A portfolio of application specific materials that can		х	х	х	х
Tomulations	ECCOH"	ECCOH [™]	be used in automotive areas that require high mechanical					х
		Edgetek [™] PKE	performance within tight specifications such as door & under the hood components. Also materials for applications that require weight, radiation shielding, or metal/lead alternatives and low-density formulations for underhood covers, panels and inserts fans				Х	
		Gravi-Tech [™]			Х			
		LubriOne [™]				Х		
		Maxxam [™] FR					Х	
		OnForce [™]			Х	Х		
		Stat-Tech [™]	and air management systems, battery trays, roofing systems					X
		Surround [™]	and other interior and exterior components.					Х
		Therma-Tech [™]		Х				Х
		OnFlex™			Х	Х		
	WEGO.	Versaflex® CE			Х			
Styrene Methyl Methacrylate (SMMA)	INEOS Styrolution	NAS® XC	These transparent copolymers are a premium choice for applications demanding a strong, stiff, water-clear plastic. The material is designed for applications requiring ultra clarity and very low haze. The UV version offers enhanced UV and high UV color stability making it an ideal material for automotive exterior and interior applications.	x	x	x		x

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Product Family	Supplier	Product Name	Product Descriptions & Typical Applications	Lighting	Interior	Exterior	Under The Hood	Advanced Mobility
Thermoplastic Polyester Elastomer (TPC-ET)	Celanese	Hytrel®	High temperature, high performance copolyester elastomers that combine the properties of thermoplastics and thermoset rubbers with good resistance to weather, chemicals wear and heat. Used in constant velocity (CV) joint boots, tie rod boots, ball joint boots, air ducts, seating, air bag deployment covers, etc.		х	X	х	х
Thermoplastic Polyolefin (TPO) Compounds	GEON Performance Solutions RheTech, Inc.	GEON®	Characterized by high impact resistance, low density and good chemical resistance, used in HVAC modules, engine covers, underbody panels, running boards, IP retainers, door panel substrates, sun visor cores, seat backs and load floors, etc.	x	x	x x	x	х
Thermoplastic Polyolefin Elastomer (TPO (POE))	LyondellBasell	Adflex® Hifax® Hostacom® Softell®	POEs offer low density and high flexibility and are commonly used as impact modifiers and to make molded products more flexible. They can be used in bumper covers and fascias, interior trim panels, door panels, etc.		x x x	x x x		
Thermoplastic Polyurethane (TPU) Polyester/Polyether	Covestro	Texin [®]	Outstanding abrasion resistance, heat resistance, shock absorption, good moisture, oil and chemical resistance. Used for flexible body panels, interior trim, convertible top rear windows, etc.	х	х	х	х	x





By Supplier

				FOCUS APPLICATIONS						
Supplier	Product Family	Product Name	Lighting	Interior	Exterior	Under The Hood	Advanced Mobility			
	Color, Additives & Inks	CESA™				х				
		ColorMatrix" Excelite"		x						
		Hydrocerol [™] , OnColor [™] , Smartbatch [™]		Х	Х					
		Nymax", Nymax" PIR, Renol", Smartbatch" FX		х	Х	Х				
		Remafin [™]		х		Х				
	PA 6 or PA 66	reSound™ R ND		Х						
	Specialty Formulations	Complēt [™]		х	х	х	Х			
AVIENT		ECCOH, Stat-Tech [™] , Surround [™]					х			
WHALKI		Edgetek [™] PKE				х				
		Gravi-Tech [™]		х						
		LubriOne [™]			х					
		Maxxam [™] FR				х	x			
		OnForce"		х	х		х			
		Therma-Tech [™]	х				х			
	TPE	OnFlex		х	х					
		Versaflex" CE		х						
	PA 6, PA 66, PA 66/6 Copolymer	Zytel®	х	х	х	х	Х			
	PA 612, PA 66/6T Copolymer	Zytel®		x		x	x			
Colonoso	PBT	Crastin®	x	x		х	х			
Celanese The chemistry inside innovation	PET	Rynite®	х	х			Х			
	PPA	Zytel® HTN				x	x			
	TPC-ET	Hytrel®		х	x	x	х			
Chevron Phillips Control Company II	PE	Marlex®		х		х				
	PC, HH PC, PC+ABS, PC+ASA, PC+SAN	Apec®, Bayblend®, Makrolon®	х	Х	Х		х			
covestro	PC+PBT, PC+PET	Makroblend®			х		х			
	PC+TPU, TPU Polyester, TPU Polyether	Texin®	х	х	х	х	х			
Dow	Polyethylene	DOWLEX®		х		x				

By Supplier

				FOCUS APPLICATIONS				
Supplier	Product Family	Product Name	Lighting	Interior	Exterior	Under The Hood	Advanced Mobility	
ADUDONES	Acetal (POM)	Delrin [®]	х	х	х	х	х	
<dupont≥< td=""><td>Masterbatch</td><td>Siloxane Masterbatch</td><td></td><td>x</td><td></td><td></td><td></td></dupont≥<>	Masterbatch	Siloxane Masterbatch		x				
	HDPE Compounds	GEON®		х				
GEON® Performance Solutions	PP Compounds	GEON®	х	х	х	x		
	TPO Compounds	GEON®		x	х			
INEOS Olefins & Polymers USA	PP Copolymer	INEOS®		х				
	ABS	Lustran®	х	х	х		х	
	ABS, ASA , PC+ABS	Novodur®, Luran® S	х	х	х	х	х	
	ABS	Terluran®		х	х			
INEOS STYROLUTION	ABS+PA, ASA+PA	Terblend® N, Terblend® S, Triax®		х			х	
STIROLOTION	PC+ASA	Luran® SC			х			
	SMMA	NAS® XC	х	х			х	
	SMMA	NAS XC® UV	х	х	х			
INVISTA™ POLYPROPYLENE	PP Copolymer	INVISTA"		Х	Х	Х	х	
	ASA, ASA+AES, ASA+TPE, PP Alloy, PP Compounds/PP Copolymer, TPO (POE)	Centrex®, Hifax®, Hostacom®, Adflex®		х	Х			
lyondellbasell	PP Compounds/PP Copolymer	Hostacom [®]	х	х	х	х		
1 1 111 11	PP Compounds/PP Copolymer	Pro-fax®		х	х	х		
	PP Compounds/PP Copolymer, TPO (POE)	Softell [®]		Х				
P Pinnacle Polymers	PP Copolymer	Pinnacle PP		х	х	х	х	
	Bio-Fiber Reinforced TPO	RheVision		х			х	
heTech Payor Companding and Cloud Separation A MEXPOL COMPANY	PP Compounds, TPO Compounds	RheComp	х	х	х	Х	х	
	Acrylic (PMMA)	Plexiglas®	Х	х	Х		Х	
	Acrylic (PMMA)	Plexiglas® Frosted, Plexiglas® Reflect [*]	x	Х				
TOINICE O	PC	CALIBRE", CALIBRE" MEGARAD", EMERGE"	Х		Х			
TRINSEO.	PC+ABS	EMERGE [™]	х	X	Х			
	PC+PET	EMERGE [™]	х	x		x		
	PP, PS	INSPIRE", IR STYRON"		х	х	х		



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