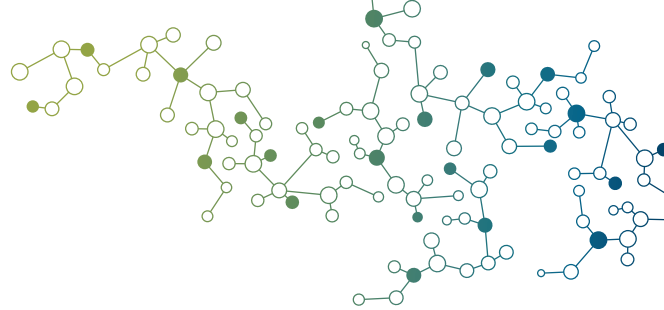


# NON-AUTOMOTIVE VEHICLES



## WORK OR PLAY WITH CONFIDENCE

Sun, snow, mud, or rain, you can proceed with confidence in the durability and appearance of your vehicle when using Americhem Engineered Compounds. Offering an excellent balance of properties and aesthetics, our compounds provide the durable performance that OEMs require. Vibrant colors and UV stability provide eye-catching, long-term appearance and performance for high-profile brand identity.

## VEHICLE PERFORMANCE, INSIDE AND OUT

From appearance to function, Americhem Engineered Compounds, or AEC, provides the polymeric material solution for a wide range of needs:

- Elimination of paint
  - Weatherable, scratch-resistant, high-gloss, mold-in-color compounds
- Metal replacement
  - Highly engineered, structurally reinforced alloys that provide the strength required to implement design versatility in polymer solutions
- Weight reduction
  - Low specific gravity compounds reduce part weight and enable efficient, light weight design

## PERFORMANCE ENGINEERED COMPOUNDS READY TO TAKE ON ANY CHALLENGE

AEC brings 25 years of proven performance to mold-in-color exterior and under-the-hood performance applications. Our broad polymeric compound offerings ensure the optimal balance of properties tailored to the specific needs of your application; PEEK, PPA, PA, ABS, ASA, PC, PEI, PBT, TPU, PPO, PVDF, POM, PMMA, HDPE, and PP.

- Vibrant color, gloss and DOI
- Long-lasting appearance
- Chemical resistance
- Scratch and mar resistance
- Toughness
- Wear-resistance
- Tensile and flexural properties



**americhem**<sup>®</sup>  
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# NON-AUTOMOTIVE VEHICLES continued

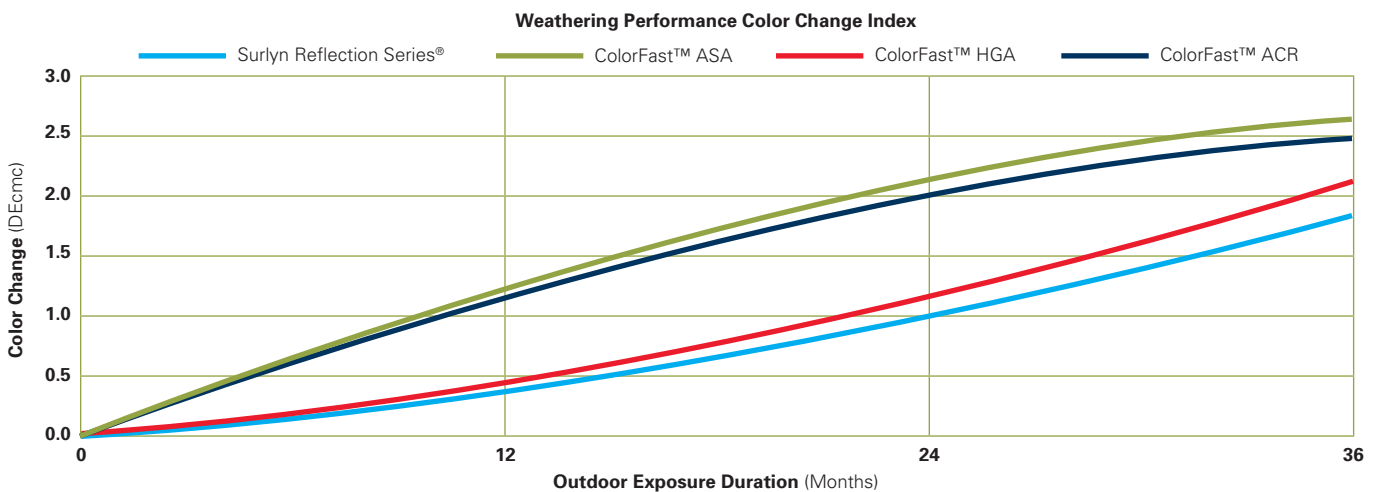
## HIGHLY AESTHETIC & WEATHERABLE COMPOUNDS FOR EXTERIOR APPLICATIONS

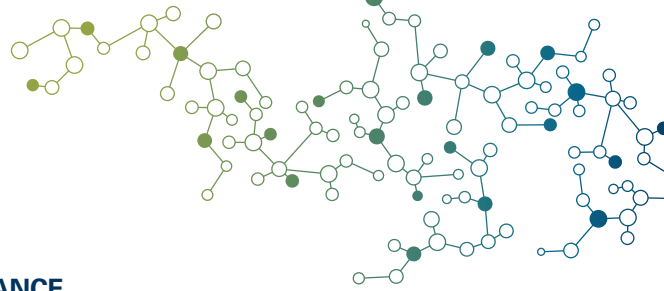
ColorFast™ and Surlyn Reflection Series® compounds afford the production of durable, Class A finish parts that require no painting. Excellent weatherability, chemical resistance and resistance to scratch and mar ensure your application withstands the test of time while maintaining its OEM designed appearance. Elimination of paint and complete recyclability of these resins enable manufacturers to produce an attractive, weatherable part at lower cost and reduced environmental impact.

- Surlyn Reflection Series® Compounds
  - Unmatched balance of Class A appearance, low-temperature impact, and scratch and chemical resistance for demanding applications
- ColorFast™ HGA High-Gloss Compounds
  - Proprietary alloys offering exceptional high-gloss appearance and outdoor durability suitable for large part injection molding or sheet/film capstock
- ColorFast™ Engineering Compounds
  - Engineered compounds for molding and extrusion applications providing outdoor durability, toughness and excellent aesthetics

Injection Molding Compounds for Exterior Application

Property	Ranking	Surlyn Reflection Series®			ColorFast™ HGA			ColorFast™ Engineering Compounds			
		SURSG201UG	SURSG201UN	SURSG201-10T	HGA1500MN10	HGA1500	HGA5500	PCPBT2000	ASA300	PCASA320	PMMA100IM
Scratch Resistance	1 to 5 5 = Best	5	5	5	5	5	2	3	3	3	4
Weatherability		4	4	4	4	4	4	3	4	3	5
Chemical Resistance		5	5	5	5	5	5	3	3	3	3
Appearance/ Gloss		5	5	4	4	5	4	4	5	4	5
Heat Resistance		3	3	4	4	3	2	5	5	5	4
Impact Strength		5	5	5	4	5	5	5	2	3	1
Low-Temperature Impact		5	5	5	4	4	5	4	2	3	1
Melt Flow Length		1	3	2	3	4	2	5	4	4	2

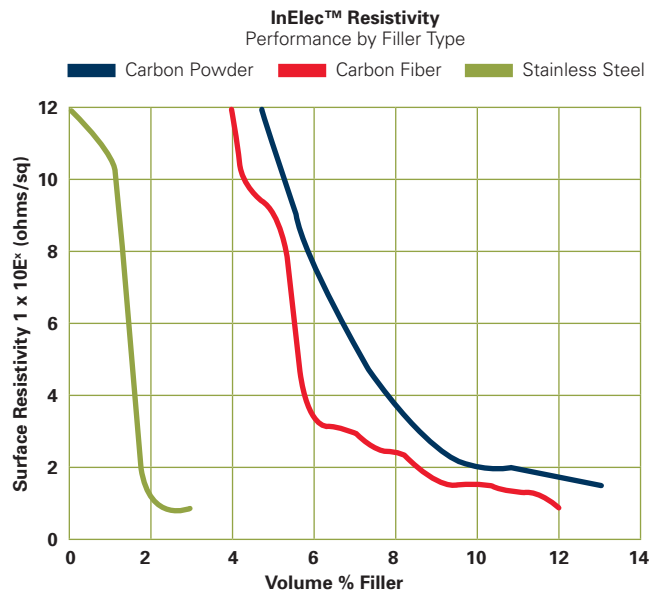
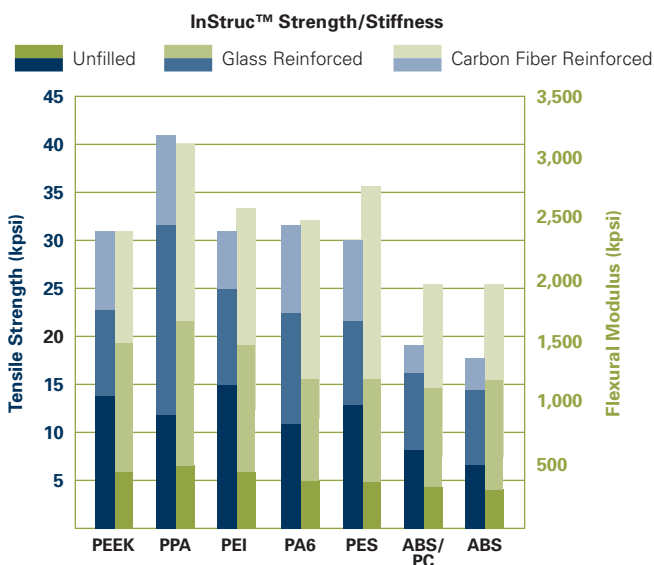
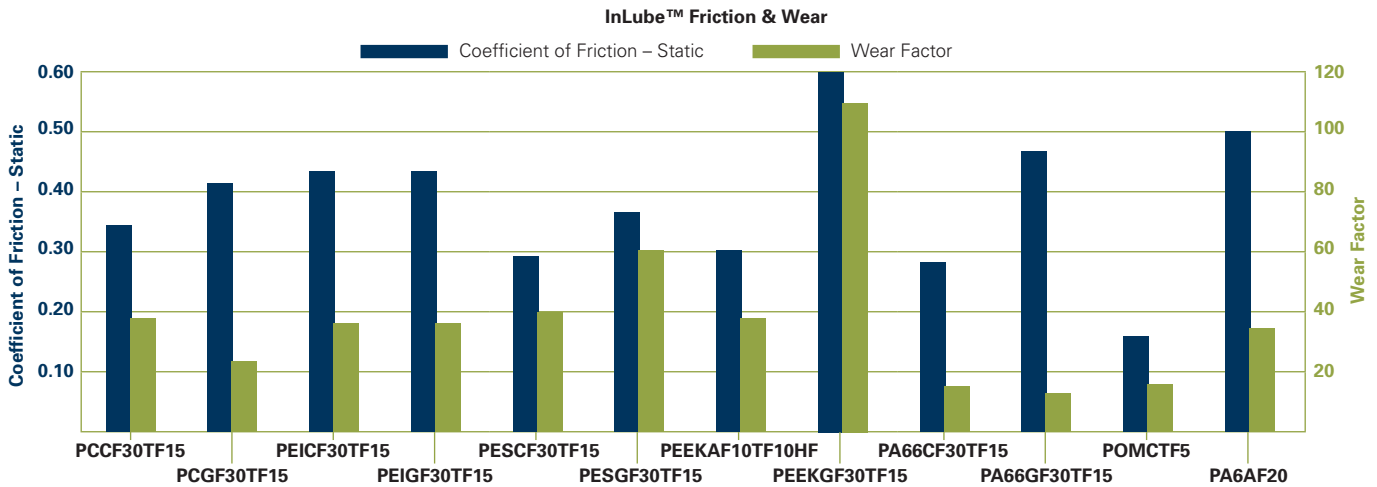




## ENGINEERING COMPOUNDS FOR UNDER-THE-HOOD PERFORMANCE

You can depend on our InStruc™, InLube™, and InElec™ engineered compounds for reliable vehicle performance. A broad range of polymers and additives are combined to deliver solutions for the physical property needs of your application such as energy transfer, resistance to wear, lubricity, vibration damping, rigidity, chemical resistance, burn resistance, heat resistance, and more.

- InStruc™ Structurally Reinforced Compounds
  - Glass and carbon-fiber reinforced compounds for high-strength and stiffness and heat distortion temperature for metal replacement applications
- InLube™ Internally Lubricated Compounds
  - Internally lubricated compounds for low friction and high wear resistance for increased durability and service life
- InElec™ Engineered Compounds
  - Electrically active compounds with custom antistatic, dissipative and conductive additives to prevent degrading effects of static build-up and RFI/EMI interference



Vehicle Application Material Selector

Applications	Polymer / Compound																
	PEEK	PPA	SRS	HGA	ABS, PC/ABS	ASA, ASA/PC	PC	PPE/PPO	PPS	PEI	PBT	PC/PBT	PC/PET	TPU	PA6/PA66	PA12	POM
Air Conditioning Systems, Components	X	X															
Air Induction Systems	X														X		
ATV Housings, Hoods, Fenders			X	X		X											
Battery, Battery Support							X	X			X				X		
Bearing Retainers	X																
Blower Components													X				
Boating / Marine			X	X	X	X											
Body Side Moldings Vertical Body Panels			X	X	X	X											
Braking Systems	X															X	
Bumpers / Fascias / Grilles			X	X	X	X						X	X				
Bushings, Bearings	X	X							X	X					X		X
Cowl Vents, Grilles			X		X	X						X					
Electronics					X		X				X	X		X			
Engine Compartment, Manifolds, Etc.															X		
Exhaust System Components	X																
Exterior, Miscellaneous Parts			X	X		X											
Fans / Shrouds	X						X	X	X	X	X	X			X		
Fluid Reservoirs																	X
Fluid System Components		X									X				X	X	
Gears	X	X							X	X	X				X		X
Grips, Soft Touch														X			
Handles					X			X			X				X		
Holders, Brackets, Miscellaneous		X			X		X							X	X		
Housings, Miscellaneous					X	X		X					X				
Interiors, Miscellaneous Parts			X	X	X									X	X		
Lawn and Garden, Tractor Components			X	X		X											
Lighting		X			X		X			X							
Metal Replacement	X	X							X						X		
Mirror, Mirror Housings			X		X	X		X				X	X		X		
Sensors		X															
Shroudes and Consoles			X		X	X							X				
Snow Mobile Housings, Hoods, Fenders			X			X											
Transmission / Powertrain Components	X	X															
Vents / Grilles Miscellaneous			X		X	X		X				X					
Watercraft Housings, Hoods, Etc.			X	X	X	X											
Wheel Covers	X				X			X							X		
Wear and Friction	X	X			X		X	X	X						X		X



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