



# MATERIALS FOR EXTERIOR APPLICATIONS

Plastics aid exterior automotive components by maintaining aesthetic appeal and functionality over time. Easily processed, plastics can form complex shapes, continue to perform despite wear and tear and exposure to various weather climates, and can duplicate color and finish for a uniform look.

Formerra is dedicated to supporting transportation customers and various exterior application needs with our comprehensive materials portfolio of polymers, colorants and additives. We are also available to assist in navigating complex exterior application designs through collaboration with our supplier technical and design teams.



## Automotive

### TYPICAL EXTERIOR APPLICATIONS

- Bumpers/fascias
- Front grilles
- Hoods
- Liftgates
- Windows
- Doors
- Cladding
- Mirrors
- Wheel covers
- Roof trim
- Exterior trim
- Emblems
- Truck bed liners
- Rocker panels
- Gears/bushes/cams/bearings
- Cameras/sensors/LIDAR
- Pillar covers



### COMMON EXTERIOR NEEDS

- High heat resistance
- High wear resistance
- Excellent durability
- High impact resistance
- Good chemical resistance
- Thermal stability

# SOLUTIONS FOR EXTERIOR APPLICATIONS

Supplier	Chemistry	Product Name
Avient	Color, Additives & Inks, PA 6, PA 66, Specialty Formulations, TPE	Complēt™, Hydrocerol™, LubriOne™, Nymax™, Nymax™ PIR, OnColor™, OnFlex™, OnForce™, Renol™, Smartbatch™, Smartbatch™ FX
Celanese	PA 6, PA 66, PA 66/6 Copolymer, TPC-ET Delrin	Hytrel®, Zytel®
Covestro	HH PC, PC, PC+ABS, PC+ASA, PC+PBT, PC+PET, PC+SAN, PC+TPU, TPU Polyester, TPU Polyether	Apec®, Bayblend®, Makroblend®, Makrolon®, Texin®
DuPont	Acetal (POM)	Delrin®
INVISTA	PP Copolymer	INVISTA™
GEON Performance Solutions	PP Compounds, TPO Compounds	GEON®
INEOS Styrolution	ABS, ASA, PC+ABS, PC+ASA, SMMA	Luran® S, Luran® SC, Lustran®, NAS XC® UV, Novodur®, Terluran®
LyondellBasell	ASA, ASA+AES, ASA+TPE, PP Alloy, PP Compounds, PP Copolymer, TPO (POE)	Adflex®, Centrex®, Hifax®, Hostacom®, Pro-fax®
Pinnacle Polymers	PP Copolymer	Pinnacle PP
RheTech, Inc.	PP Compounds, TPO Compounds	RheComp
Trinseo	Acrylic (PMMA), PC, PC+ABS, PP, PS	CALIBRE™, CALIBRE™ MEGARAD™, EMERGE™, INSPIRE™, IR STYRON™, Plexiglas
Pinnacle Polymers	PP Copolymer	Pinnacle PP
RheTech, Inc.	PP Compounds, TPO Compounds, Bio-Fiber Reinforced TPO	RheComp, RheVision
Trinseo	AAcrylic (PMMA), PC+ABS, PC+PET, PP, PS	EMERGE™, INSPIRE™, IR STYRON™, Plexiglas®, Plexiglas® Frosted, Plexiglas® Reflect™

The trademarks and brand names referenced in the chart above are owned by the suppliers set forth across from such trademarks and brand names.

## Take The Next Step

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## We're Here To Help

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Call **1.888.502.0951**

Email **inquiries@formerra.com**

For polymer technical support

Call **1.866.765.9824**

Email **phd@formerra.com**

## Capabilities

Design Support

Market Intelligence

Material Selection

Custom Formulations

Manufacturing Optimization

Technical Support

Supply Chain Optimization

Regulatory Compliance Support

Global Reach

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