



## FORMERRA: 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.

### 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
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## FORMERRA MATERIAL SOLUTIONS FOR EXTERIOR APPLICATIONS

| SUPPLIER                   | CHEMISTRY   | BRANDS   |
|----------------------------|---|--|
| Avient                     | Color, Additives & Inks, PA 6, PA 66, Specialty Formulations, TPE                       | Complēt™, Hydrocerol™, LubriOne™, Nymax™, Nymax™ PIR, OnColor™, OnFlex™, OnForce™, Renol™, Smartbatch™, Smartbatch™ FX |
| 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), PA 6, PA 66, PA 66/6 Copolymer, TPC-ET                                    | Delrin®, Hytel®, Zytel®  |
| 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                    | ABS, Acrylic (PMMA), PC, PC+ABS, PP, PS   | CALIBRE™, CALIBRE™ MEGARAD™, EMERGE™, INSPIRE™, IR STYRON™, MAGNUM™, Plexiglas®, PULSE™                                |

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

**We are here to support you in critical ways:**

- Wide range of polymer solutions from top material suppliers, including specialty formulations and masterbatch solutions from Avient
- Best-in-class technical support
- Supply chain expertise
- In-house product development/design support



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