

PARTNER HIGHLIGHT



Auburn, Alabama



HISTORY

FEB. 2011
 HPM ALABAMA CORP. ESTABLISHED

MAR. 2011
 ACQUISITION OF LAND & BUILDING

MAY. 2011
 EQUIPMENT PROCUREMENT

OCT-MAY. 2011
 EQUIPMENT INSTALLATION & MECHANICAL TEST RUN

DEC. 2011 - MAR. 2012
 TEST PRODUCTION

APR. 2012
 COMMERCIAL PRODUCTION

JAN. 2013
 CHANGED TO LOTTE CHEMICAL ALABAMA CORP

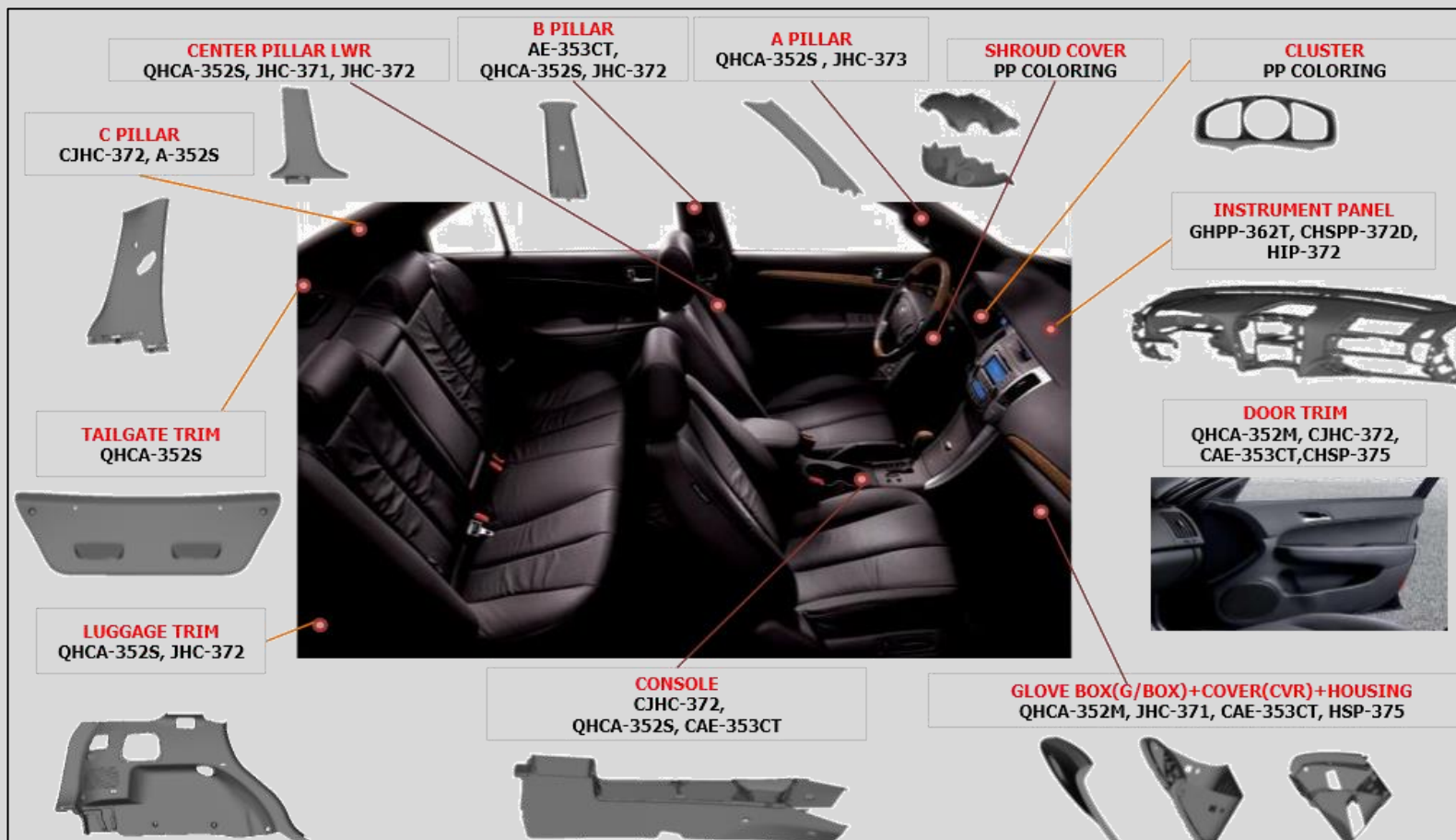
- LGF (Long Fiber reinforced Thermoplastics)
- PP-SGF (Short Glass Fiber reinforced PP)
- PP Compound (TPO, Filled PP)

**PP Compound
 Application Exterior**

Instrument Panel Core
 High stiffness and impact strength (HCPP + RUBBER + TALC)
 Ductile in Low Temperature. ☑ Invisible PAB
 Good Process-ability

Pillar Trim & Glove Box
 High stiffness and impact balance
 Scratch resistance (HCPP + TALC) & UV resistance
 Low Gloss

Door Trim
 Excellent Side Impact (PP + EOR + TALC + Slip agent)
 Excellent Scratch Resistance
 UV Resistance
 Soil Resistance
 Low Gloss



**PP Compound
 Application Interior**

Bumper Fascia

Development for thin-wall bumper (2.5 mm)
 High stiffness, impact strength, flow rate [HIPP + EOR + Talc]



Long Fiber Reinforced Thermoplastic Technology

SUPRAN® is manufactured with unique impregnation technique. Unlike other short glass fiber reinforced materials, SUPRAN® is reinforced with fibers with the same length (6-25 mm) via unprecedented pultrusion process, and is made into pellets which can be easily applied to injection molding. SUPRAN® may be applied to various injection molded products and the final molded product contains randomly oriented fibers in a mesh-like behavior to allow excellent mechanical properties, dimensional stability, as well as heat resistance.

COMPARISON TO SHORT GLASS FIBER REINFORCED PRODUCTS

- Comparison to short glass fiber reinforced products
- Higher mechanical strength
- Excellence in low temperature impact strength
- Excellent dimensional stability
- Anti-fatigue and low creep
- Heat stability (durability)
- Heat resistance : maintains mechanical strength at high temperatures



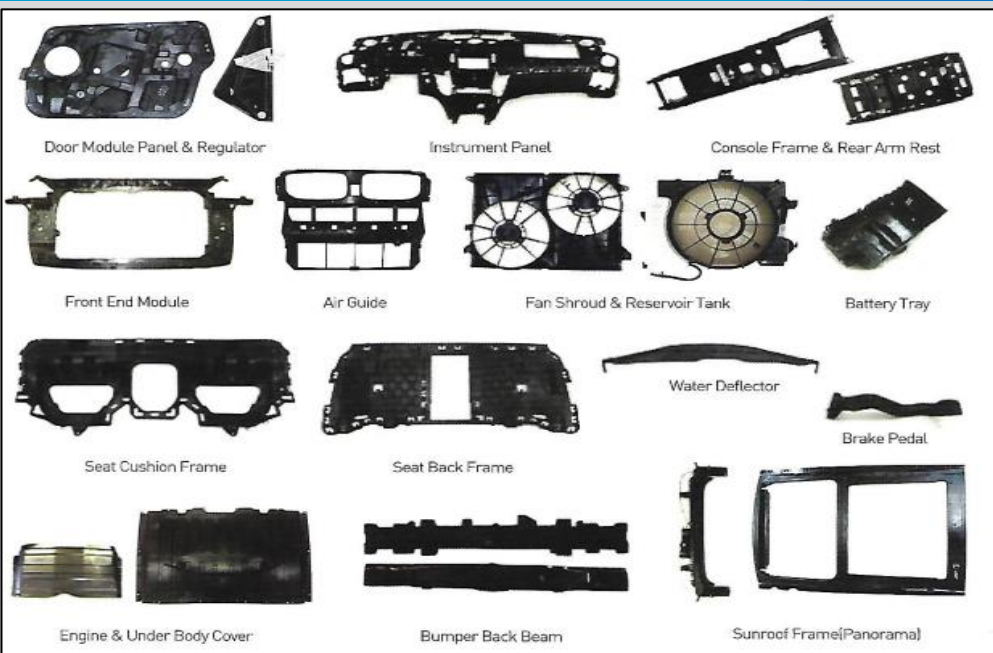
Product Type	Grade Name	Subject
PP-LGF	PP1320	20% Glass, Instrumental Panel Carrier / Core, Door Module, Fan Shroud, etc.
PP-LGF	PP1320E	20% Glass, Instrumental Panel Carrier / Core, Door Module, Fan Shroud, etc.
PP-LGF	PP1330	30% Glass, Instrumental Panel Carrier / Core, Door Module, Fan Shroud, etc.
PP-LGF	PP1330E	30% Glass, Instrumental Panel Carrier / Core, Door Module, Fan Shroud, etc.
PP-LGF	PP1340	40% Glass, Battery Tray, Fan Shroud, Sunroof Frame, Front End Module Carrier, etc.
PP-LGF	PP1350	50% Glass, Battery Tray, Pump & Motor Housing, etc.
PP-LGF	PP1360	60% Glass, Pump & motor housing etc.

APPLICATION

AUTOMOBILE

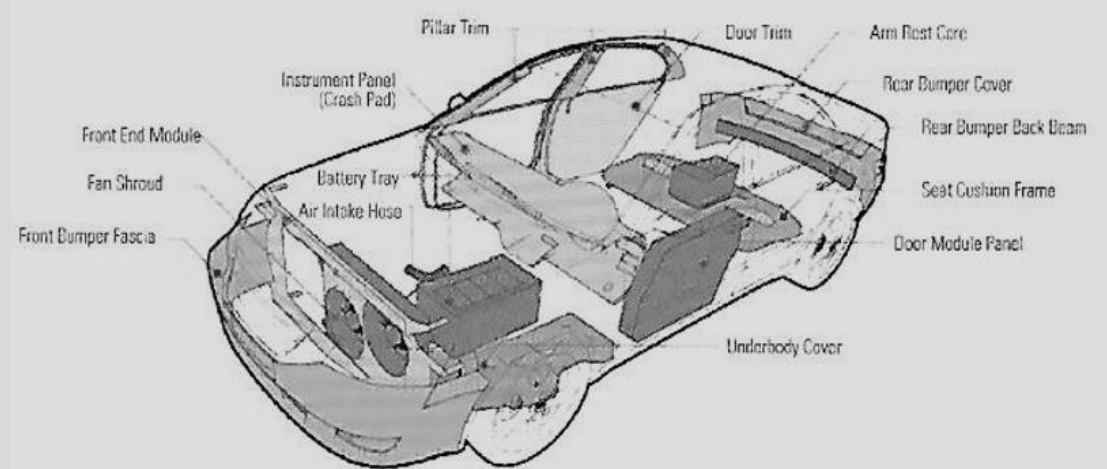
ELECTRONICS Parts for washer

OTHER INDUSTRIES Replacement for Metal



SUPRAN® LFT FOR AUTOMOTIVE

- Light weight
- Cost down
- Eco-Friendly



SUPRAN® LFT FOR HOME APPLIANCES/INDUSTRIAL/ELECTRIC, ETC.

- Hot water & chemical resistance
- Heat & UV Stability
- Creep/Fatigue



800-920-8033

For More Information:
General Polymers
Thermoplastic Materials
6841 North Rochester Rd.
STE 1A
Rochester Hills, MI 48306
Local: 248-812-1858
info@gp-materials.com

GP-Materials.com