



Advanced Materials

# Automotive Applications

alphagary

orbia  Polymer  
Solutions

- Our facilities in Mexico are designed for the production of PVC compounds and plasticizers for a wide variety of applications, with onsite R&D capabilities to aid in specialized material design.
- Enhance performance features such as UV resistance, chemical resistance and fungus resistance available
- REACH, RoHS and Prop 65 compliant grades.
- Advancing Life Around the World in Mexico! We make our processes more efficient and sustainable every year such as in our Altamira facility where we increased our production levels and reduced CO<sub>2</sub> emissions of 1,000 TON CO<sub>2</sub> eq/year.

# Compounds built for safety and comfort

Safe, comfortable and dependable are three key adjectives that come to mind when considering vehicle performance. Every material that creates every part must play its role in offering protection and wellbeing. Compounds are developed with this criteria in mind, whether designed for the inside or outside of the vehicle. We're happy to bring our experience with formulation integrity and consistency into this arena and provide the solutions needed for our customers to reach new possibilities.

- |                              |  |
|------------------------------|--|
| Formulation integrity        | Dedicated R&D team                             |
| Consistency with every blend | REACH, RoHS and Prop 65 reporting transparency |
| Regulatory Expertise         | Broad polymer selection                        |

## Application examples

Materials engineered for applications in the Automotive space include an array of flexible PVC or TPE formulations. We have numerous off-the-shelf options and often custom-formulate to fit customer specifications. Always, we look for ways to remove pain-points and bring value.



Interior cabin knobs, grips, trays, buttons



Sunroof seals, window and door seals



Exterior trim and molding including high-gloss



Recreational Vehicle seals



Wire harness and connectors



cables Electric vehicle charging




# Alphagary Mexico Automotive Portfolio


Compound	Temperature	Hardness (shore)	Specific Gravity	OI %	Characteristics
Polivisol 1802	T1/Class A	D 46	1.3	26	Automotive cable insulation, Extrusion, T. W2, CAVS, AVSS, ,YPES 21-02-002, Chrysler MS DC16
Polivisol 1872	T1/Class A	D 46	1.38	NA	General purpose and automotive applications, Extrusion
Polivisol 1850	T1/Class A	D 52	1.39	NA	Automotive cable insulation, Extrusion, THW, THHW, ISO 6722, ISO 6722
Polivisol 1908	T3/Class C	D 90	1.32	30	FLY-FLRY automotive cable, Extrusion, ISO 6722, LV 112-1, Ford ES AU5T-1A348, VW 60306-1 BMW GS 95007-1-1
Polivisol 1909	T3/Class C	D 36	1.32	30	FLY-FLRY automotive cable, Extrusion, ISO 6722-1, LV 112-1, Ford ES AU5T-1A348, VW 60306-1 BMW GS 95007-1-1
Polivisol 1910	T2/Class B	D 45	1.33	29	FLY-FLRY automotive cable, Extrusion, ISO 6722-1, Ford ES-AU5T-1A348, Class 2, VW 60306-1, BMW GS 95007-1-1, LV 112-1 B(105)
Polivisol 1911	T2/Class B	D 83	1.35	26	FLY-FLRY automotive cable, Extrusion, ISO 6722-1, LV 112-1, Ford ES-AU5T-1A348 Class 2, VW 60306-1, BMW GS 95007-1-1
Polivisol 1912	T2/Class B	D 53	1.34	NA	Low voltage (60 V) automotive cable insulation, Extrusion, ISO 6722-1, LV 112-1, YPES-21-22-162 (LCIVUS)
Polivisol 1913	T2/Class B	D 46	1.33	31	Low voltage (60V) automotive cable insulation, Extrusion, ES-AU5T-1A348-AA, ISO 6722-1, 2TAD, Low brittleness
Polivisol 1914	T2/Class B	D 52	1.36	NA	Automotive cable insulation, Extrusion, THW, THHW, ISO 6722, GMWL5626
Polivisol 0838	NA	D 38	1.19	NA	Injection Items, Boot-cont lever
Polivisol 0562	NA	D 66	1.35	NA	Automotive window encapsulation, Injection

We will work side-by-side with you throughout your trial and approval process, production scale-up and beyond. Our goal is to be your partner of choice today, and for next-generation requirements.


## Materials formulated for Automotive Applications



Cable insulation, jacket and management (see wire & cable materials)



Vehicle seat bellows



gaskets  
Light gaskets, rear view mirror

Brand	Region*	Type	
FLEXOVIN®	LATAM	PVC compounds	Flexible interior applications, wire & cable applications
GW series®	US, Canada		
POLIVISOL®	LATAM		
SYLVIN®	US, Canada		
VINAPRENE®	Europe, Africa		
INFINITUDE®	All	PVC compounds with bio-based / recycled content	Flexible and Rigid applications
EVOPRENE®	All	TPE compounds	Flexible interior and exterior applications
EVOPRENE ECO®	All	TPE compounds, bio-based	
GARAFLEX®	All	TPE compounds	Wire & Cable applications

\*Throughout numerous acquisitions, we have bolted-on several product brands and have kept the heritage brand names to support our customers who have approvals with legacy products. Across our sites, we share formulation information and best practice to benefit customers locally.



Since the 1960s, Alphagary has earned its reputation for providing innovative, functional and durable solutions to a broad marketplace, often custom formulating a material to meet end-user and market-specific requirements. **We work with an extensive range of** polymers, giving our global customer base a variety of features to choose from as they create products that we rely upon for safety, health and comfort in our everyday lives.

We are passionate about safety, dedicated to quality, and committed to harnessing the power of material science and innovation to serve customer needs, address world challenges and provide sustainable solutions.



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