



Formosa Plastics®

**Formolene® Polypropylene
Automotive Applications**

Quality, Value and Performance



Formosa Plastics is Your Partner for Polymer Solutions

Formosa Plastics Corporation U.S.A., is a privately held company headquartered in Livingston, New Jersey. Our core business of producing plastic resins and petrochemicals takes place at our vertically integrated chemical manufacturing facilities in Baton Rouge, Louisiana and Point Comfort, Texas.

At Formosa, we are committed to supplying the highest quality products and services to our customers. Our business operations include production of polyethylene, polypropylene, suspension and dispersion polyvinyl chloride, chlor-alkali, and olefins.

We have invested billions of dollars in building, expanding, and streamlining our production facilities and product supply systems. These investments help ensure that our facilities operate efficiently using the most advanced technology.

For more information about Formosa Plastics' products or to discuss a custom application, please visit www.fpcusa.com or speak with your company representative directly by calling 888.372.8723.

Discover Formolene® Polypropylene for Automotive Applications

Formosa Plastics Corporation, U.S.A. has been a value added supplier to the North American automotive market for over 20 years through innovative resin developments for direct OEM and tier fabrication, as well as compounding grades. When quality, value, and performance are essential for your success, Formosa Plastics is the clear choice.

Our state-of-the-art production facilities deliver a full range of polypropylene and polyethylene resins marketed under the Formolene® trade name. Formolene® polyolefins provide the quality and consistency necessary to meet the stringent requirements of automotive part manufacturers. With industry leading ranges of melt flows and stiffness, as well as impact balance for injection molding, blow molding, and extrusion processes, Formolene® resins exceed original equipment manufacturers' specifications.

Formosa Plastics Formolene® grades offer the versatility needed in component fabrication -whether it is for interior, exterior, or under the hood applications. We are committed to producing quality products at a great value and providing you with outstanding technical support.



Interior & Exterior Applications

Formolene® polypropylene resins are designed at various melt flows to ensure proper molding for each intended application. Our resin grades are engineered for improved processability while delivering key properties essential for meeting the toughest automotive industry specifications.

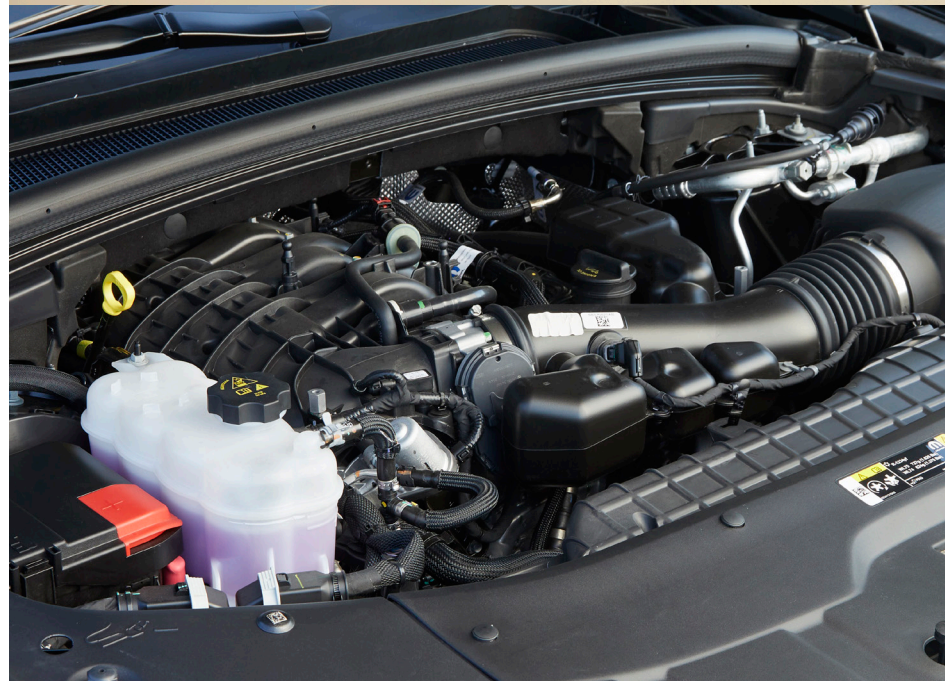
A broad range of interior molding grades are available that provide the perfect choice for either injection molding or extrusion processes without compromises. Interior applications of Formolene® polypropylene resins include:

- Kick panels
- Sill covers
- Seat backs
- Side seat covers
- Rear cargo load floor and trim
- Rear hatch trim
- Upper seat and seat belt parts
- Upper door trim
- A-D pillar trim
- Air bag covers

Under the Hood Applications

Formolene® homopolymers and copolymers meet the chemical and heat resistance standards needed to ensure long-term durability. They offer an outstanding balance of toughness and stiffness to meet the requirements for long component service life. Under the hood applications of Formolene® polypropylene resins include:

- HVAC ducting
- Battery cases & tray components
- Fluid containers (Radiator coolant, windshield washer, transmission fluid container, brake fluid container)



Materials for Compounding

Formosa Plastics offers a broad MFR range of Formolene® reactor compounding homopolymer and copolymer resins that offer optimized polymer structures. Formosa Plastics designs new products to meet compounders' needs as the industry strives for higher melt flows.

The properties of compound grade Formolene® polypropylene resins include:

- Balance of toughness and stiffness to provide necessary base properties.
- Polymer designs to optimize the addition of fillers and stabilizers.
- Enhanced thermal and color stability to complement extrusion compounding processes.



Automotive Compounding Grade Portfolio

Homopolymers						Copolymers							
Grade	5100J	1102KR	4140T	4141T	4140X	6600A	2706N	6613N	2620A	6630A	6730J	6335N	D23110N
MFR	0.4	4.0	35	35	120	0.5	6	12	20	30	30	35	125
Flex Chord. Mpa	1463	1423	1970	1790	2143	1065	879.3	1167	947	896	1016	1492	1545
Tensile Strength. Mpa	33.4	33.7	39.1	37.8	40	21.9	16.9	21.3	18.9	17.8	27.3	27.8	26.6
Notched Izod @ 23 deg C.K J/M2	7	3	2	2	2	64	52	44	42	43	14.7	6	3
Notched Izod @ 0 deg C.K J/M2	4	1.8	1.4	1.6	1.4	40	48	11.9	11	13	9.4	5.0	2.2
HDT Deg C @ 0.45 Mpa	94	85.6	110.7	103.5	119.4	79	69	85	74	74	84	101	107
Feature	Rx Grade	Rx Grade	RX & Nuc	Rx Grade	RX & Nuc	Rx Grade	Rx Grade	Rx Grade	Rx Grade	Rx Grade	Rx Grade	RX & Nuc	RX & Nuc

Automotive Molding & Extrusion Grade Portfolio

Homopolymers				Copolymers									
Grade	5104J	5144L				6600A	6502A	2510A	2620A	6530N	6535N	6575N	
MFR	0.5	5.0				0.5	1.5	10	20	30	35	75	
Flex Chord. Mpa	1400	2073				1065	1257	1130	947	1055	1065	1117	
Tensile Strength. Mpa	33	39.9				21.9	24.6	23.5	18.9	19.75	21.4	21.1	
Notched Izod @ 23 deg C.K J/M2	7	2.7				64	57	12	42	42	18	13	
Notched Izod @ 0 deg C.K J/M2	4	1.8				40	34	6	11	15	8	9.3	
HDT Deg C @ 0.45 Mpa	94	115.9				79	84	75	74	82.85	83	91	
Feature	LTHA	LTHA											Hi Flow



Our Commitment to Sustainability

At Formosa Plastics, we firmly believe that we must do our part to protect the environment and advance social programs in the communities where we live and work.

We are committed to achieving our vision and enhancing our impact locally and globally by through the United Nations Sustainable Development Goals (SDGs). In alignment with the Affordable & Clean Energy SDG, Formosa Plastics is converting our entire vehicle fleet of 400+ vehicles to electric and hybrid by 2026. We are also installing 500 charging stations for use by our employees and contractors at our properties in New Jersey, Louisiana, and Texas.

To learn more about our sustainability initiatives, please visit www.fpcusa.com/sustainability.





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The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions concerning uses or applications are only the opinion of FORMOSA PLASTICS CORPORATION, U.S.A. and users should perform their own tests to determine the suitability of these products for their own particular purposes. However because of numerous factors affecting results, FORMOSA PLASTICS CORPORATION, U.S.A. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, other than that the material conforms to the applicable current Standard Specifications Statements herein, therefore, should not be construed as representations or warranties. Statements concerning the use of the products of formulations described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.