

Quality, Value and Performance

Discover Formolene® Polypropylene for Automotive Applications

When quality, value and performance are essential for your success, Formosa is your choice.

Formosa Plastics Formolene® grades offer the versatility needed in component fabrication. Formosa delivers quality performance and values you expect; whether it is used in interior, exterior or under the hood applications.

Our state of the art production facilities reliably deliver a full range of homopolymer and copolymer polypropylene resins. The quality and consistency provided is necessary to exceed the stringent requirements for automotive parts.

Formosa has served the automotive market for years with innovative products. Our broad, growing and sophisticated portfolio of Formolene® Polypropylene resins are gaining acceptance with automotive OEMs and suppliers.

Our commitment to your success is to provide quality, value and performance, backed by top-notch technical service.

Interior Applications

Formolene® polypropylene resins are designed with various melt flows to insure proper molding for the intended applications. Our grades are engineered for improved process-ability while delivering key properties essential for meeting the toughest requirements.

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 are typically used for:

- Interior Trim (below shoulder interior trim and above shoulder energy management grades)
- Seat backs and cargo areas (load floors and side storage panels)



Under the Hood Applications

Formolene® homopolymers and copolymers meet the chemical and heat resistance 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 are generally found in:

- Batteries and battery boxes
- HVAC components
- Air management systems
- Wiring harness covers

Materials for Compounding

Formosa Plastics offer a broad range of Formolene® reactor compounding homopolymer and copolymer resins that offer optimized polymer structures. Formosa Plastics designs new products to meet compounder's needs as they seek higher melt flows. The properties of Formolene® Polypropylene resins include:

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



Optimized Resins for Automotive Applications

Applied Polymer Innovation



Automotive Molding Resins

GRADES	6335N	6502A	6535N	6575N	2620A	6630A	6600A
MATERIAL TYPE	Low Impact Copolymer	Medium Impact Copolymer	Medium Impact Copolymer	Medium to High Impact Copolymer	High Impact Copolymer	High Impact Copolymer	High Impact Copolymer
APPLICATION	Compounding, Interior Trim	Compounding, Interior Components	Interior Trim	Compounding, Interior Components	Compounding, Interior Trim	Compounding, Interior Trim	Blow Molding
MELT FLOW	35	1.5	35	75	20	30	0.5
TENSILE STRENGTH	4,300	3,800	3,500	3,300	2,800	2,700	3,700
ELONGATION (YIELD)	5	9	100 (break)	6	7	6	10
FLEX MODULUS	210	175	165	155	120	125	170
IZOD @ 73 °F	1.2	16	2.5	3	11	10	NB
IZOD @ 32 °F	N/A	1.7	1.5	1.2	2.0	N/A	2.5
IZOD @ 0 °F	0.7	N/A	1.2	N/A	1.8	1.1	2.1
HDT @ 66 PSI	110	97	97	101	85	90	86

Automotive Compounding Resins

GRADES	1102KR	4140T	4141T	6600A	2620A	6613N	6630A	6730J
MATERIAL TYPE	Homopolymer	Homopolymer	Homopolymer	High Impact Copolymer	High Impact Copolymer	Copolymer	High Impact Copolymer	High Melt Flow Copolymer
MELT FLOW	4	35	35	0.5	20	12	30	33
TENSILE STRENGTH	5,200	6,000	5,600	3,700	2,800	3,300	2,700	N/A
ELONGATION (YIELD)	9	6	7	10	7	5	6	
FLEX MODULUS	220	280	240	170	120	165	125	140
IZOD @ 73 °F	0.7	0.5	0.5	NB	11	10	10	3.5
IZOD @ 32 °F	N/A	N/A	N/A	2.5	2.0	2.5	N/A	N/A
IZOD @ 0 °F	N/A	N/A	N/A	2.1	1.8	2.1	1.1	N/A
HDT @ 66 PSI	N/A	N/A	N/A	86	85	97	90	97

Our Commitment

Formosa Formolene® polypropylene quality and consistency, together with our technical service, provide excellent value and produce components that consistently perform as required.

Quality and Consistency – We will deliver resins that meet or exceed customers' requirements.

Performance – Help customers produce consistent, valued components that perform to specifications for durability, appearance and safety.

Value – Provide excellent per unit component value – from resin grade selection, purchase and delivery to optimized processability and final component production.

Technical Service - Provide top-notch, responsive technical service that develops prompt, accurate solutions.

Your Partner for Polymer Solutions

With corporate headquarters in Livingston, New Jersey, Formosa Plastics Corporation, U.S.A. owns and operates three vertically integrated chemical manufacturing subsidiaries located in Delaware City, Delaware; Baton Rouge, Louisiana; and Point Comfort, Texas. Through affiliated facilities located in Ningbuo (China), Mailiao (Taiwan) and Linyuan (Taiwan), we can meet international demands.

Our business operations include the production of polyethylene, polypropylene, suspension and dispersion polyvinyl chloride, chlor-alkali and olefins.

For more information about Formosa Plastics' products or to discuss a custom application for a no obligation quote, visit www.fpcusa.com or speak with your company representative directly by calling 888.372.8723.

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