



Formosa Plastics®

**Discover Formolene®
Polypropylene for
Automotive Applications**



ENTEC

Formosa Formolene® Polypropylene For Automotive Applications

INTERIOR APPLICATIONS

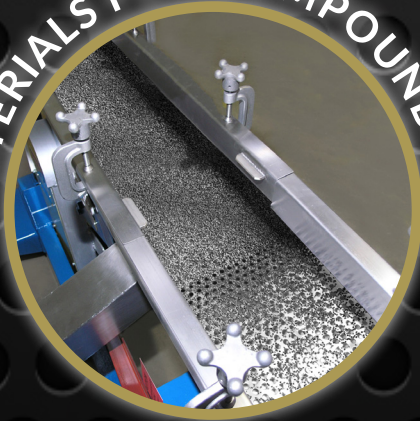


Formolene® Polypropylene resins are designed with various melt flows to insure proper molding for the intended applications. Our grades are engineered for improved processability while delivering key properties essential for meeting the toughest requirements.

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).

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 stabilizers.
- Enhanced thermal stability to complement extrusion compounding processes.

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

AUTOMOTIVE MOLDING RESINS

GRADES	6335N	6335N	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