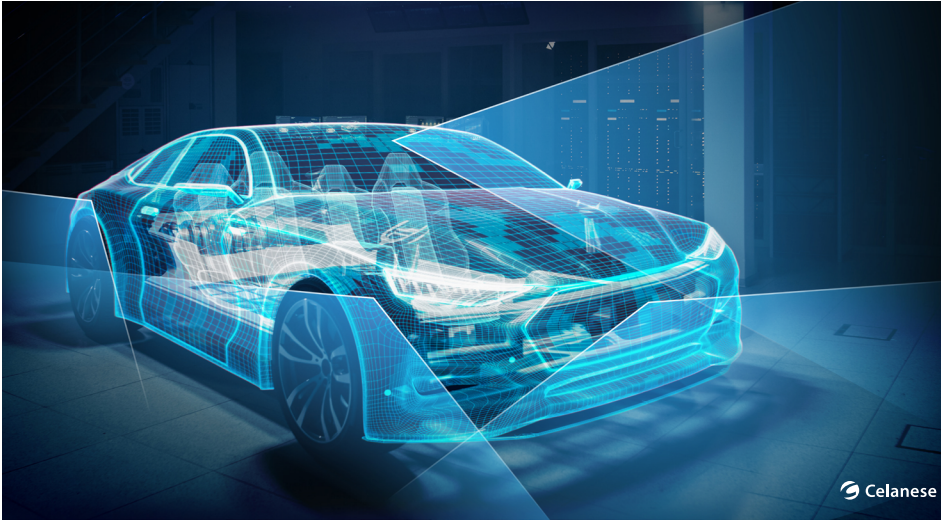
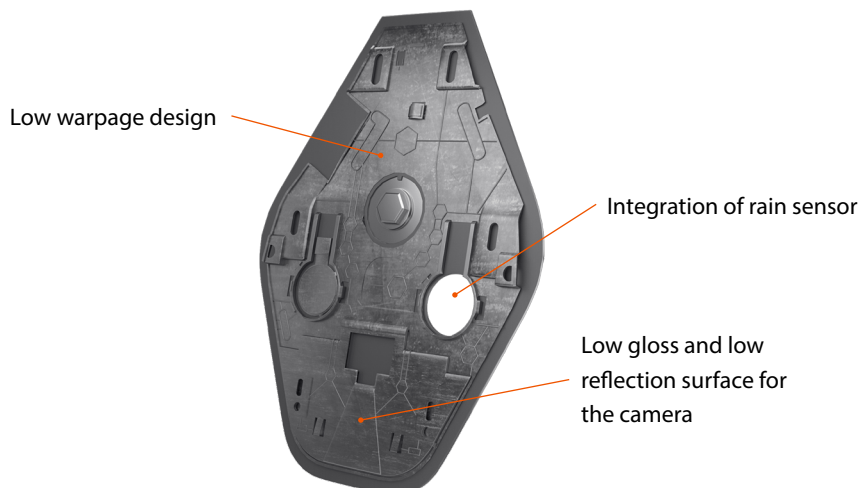


DURABLE SOLUTIONS FOR AUTOMOTIVE HIGH-RESOLUTION CAMERA WINDSHIELD BRACKETS



Improvements in small, durable solutions are driving developments in the advanced driver assistance systems (ADAS) industry. Sensors must rapidly evolve to meet rising autonomy levels in vehicles, as well as demand for active safety and driver assistance technologies. Specifically, high-resolution camera solutions are improving as consumers grow more aware of active safety technologies and desire more confidence while driving. Significant upgrades in camera components help satisfy new safety regulations that mandate the use of active safety and driver assistance technologies, such as collision warning systems, automatic emergency braking, and lane departure warnings.



INDUSTRY NEEDS

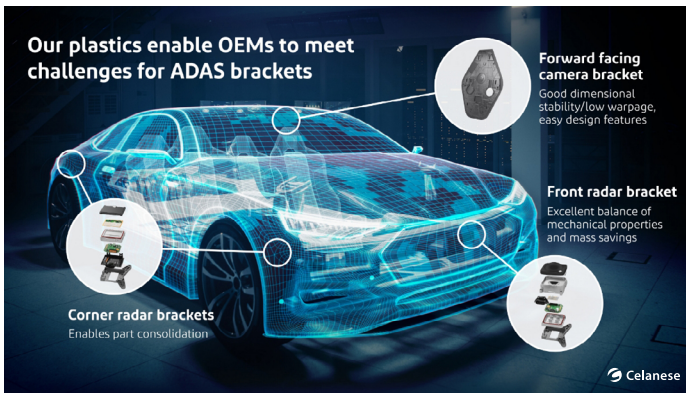
- Excellent dimensional stability and low warpage
- Outstanding adhesive compatibility to secure component on the windshield for the life of the vehicle
- Superior flow for easy processing of design features, such as snap fits and over-molded inserts
- Improved laser-marking properties
- Resistance to hydrolysis and low fogging

SOLUTIONS

Celanese Crastin® PBT and Celanese Rynite® PET resins offer clear advantages for vehicle manufacturers. Our materials help high-resolution camera windshield brackets stand up to the harshest environments.

We work with manufacturers around the world on their ADAS platforms to deliver solutions that enhance high-resolution camera solutions, with a specific focus on:

- Dimensional stability
- Adhesive compatibility
- Hydrolysis resistance
- Spiral flow
- Laser marking
- Interior emissions and fogging
- Snap fit



ABOUT RYNITE® PET

Rynite® PET unites the best properties of reinforced polyethylene terephthalate (PET) with easier processability to produce high-performance parts. This stiff, UV-resistant polymer offers a balance of thermal, mechanical, and chemical properties. Its low warpage (when molded with cold-mold temperatures) is an ideal fit for high-resolution camera brackets.

ABOUT CRASTIN® PBT

Celanese Crastin® PBT is a stiff, tough PBT thermoplastic with superior dimensional properties and stability. Crastin® PBT is the resin of choice for cost-effective, high-performing automotive high-resolution cameras. It's easy to process, offering manufacturers the advantage of enhanced flow qualities. Specific benefits for manufacturers of high-resolution camera brackets include:

- Extremely low warpage for higher dimensional control
- Hydrolysis resistance for low fogging
- Laser marking grades available
- Adhesive compatibility to secure component to the windshield for the life of the vehicle
- Meets strict requirements for mechanical properties

SOLUTIONS FOR HIGH-RESOLUTION CAMERA BRACKET

	Product Description	Dimensional Stability	Adhesive Compatibility	Hydrolysis Resistance	High Flow	VOC - Fogging	Snap Fit
Crastin® PBT SK605LM	PBT-GF30	+	++++	++	++++	++++	++
Crastin® PBT LW9020	PBT/ASA-GF20	+++	++++	+++	++++	+++	++
Crastin® PBT LW9030	PBT/ASA-GF30	++	++++	+++	++++	+++	++
Crastin® PBT LW9320LM	PBT/SAN-GF20	+++	++++	+++	++++	+++	++
Crastin® PBT LW9330	PBT/SAN-GF30	++	++++	+++	++++	+++	++
Crastin® PBT HR5330HFS	PBT-GF30 HR	+	++++	++++	++++	++++	++
Crastin® PBT SLW9030	PBT/ASA-GF/MD30	++++	++++	+++	++++	+++	++
Rynite® PET 935	PET-GF/MD35	+++*	++++	+	+++*	++	++
NPO-2021-041	rPET-GF/MD35	++++	++++	+	+++*	++	++

*Molding with optimal processing conditions

Source: Celanese

Best

++++	+++	++	+
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