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The amount of residual stresses may point to one solution, while the distribution of stresses may suggest other required processing alterations. Depending on the production method, changes in

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material, temperature, cooling rates, airflow, gate placement, part thickness, and numerous other factors will cause variations in residual stresses or their distribution throughout a plastic part.

Measuring Residual Stress In Transparent Plastics

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Merely said, the residual stress in

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Residual stresses are those stresses that remain in an object (in particular, in a welded component) even in the absence of external loading or thermal gradients. In some cases, residual stresses result in significant plastic deformation, leading to warping and distortion of an object. In others, they affect susceptibility to fracture and fatigue.

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Here are some factors that cause residual stress in plastic parts:

1. Thermoplastics are long-chain molecules. Their resting or stress-free state is a coiled chain something like a slinky.

How to Deal With Residual Stress in ...
- Plastics Technology

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Residual stresses are introduced by nearly all techniques used for polymer manufacturing. They form as a result of extrusion, stretching, drawing, molding, casting, joining, or other strain-inducing processes. Strains can be introduced by differential shrinkage, uneven cooling, or

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Residual stress is an inherent result of plastics manufacturing processes and occurs when molten polymer is cooled and shaped. Sometimes, these stresses are intentionally produced to impart desirable characteristics, such as in oriented PET films and bottles.

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Stress: Diagnose It Before It Ruins Your Parts | Plastics ...

Clear plastics are used extensively in the production of lenses and optical transparencies.

Residual stresses introduce birefringence—an asymmetry of the index of refraction—that can make a plastic lens unable to focus

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properly. Even a small level of birefringence hampers optical properties and product performance.

Residual Stress Testing for Transparent Polymers ...

The quality of molded parts made of clear thermoplastic polymers is determined by the absence or presence of residual stresses. In this work we analyzed

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the flow-induced residual stresses, which cause serious damage to plastic parts used in automotive and optical applications.

Relaxation of residual stresses in plastic cover lenses

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Residual stress on plastic materials The MTS3000 - Restan, is an automatic system created to measure residual stresses by the hole-drilling strain-gage method according to the ASTM E837 standard. This system is a product developed by SINT Technology and it can be used also to measure residual stress on plastic material, with a

Access Free Residual Stress In Plastics Home modification of the system.

Residual stress on plastic materials - SINT TECHNOLOGY

the unknown residual stresses in the plastic. In this study the chemical probe was used to examine the residual stress in injection-moulded preforms that are used in the production of plastic drink bottles. Residual stress is a

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particular problem in preforms as it can cause bottles to fail when they are blow-moulded. One technical problem that

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stress also occurs

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when plastic deformation is non-uniform through the cross-section of an object undergoing a manufacturing process, such as bending, drawing, extruding and rolling.

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Measure Stress In
Transparent Plastics By
Alex . & Barbara R.
Hoffm t' the opt . You

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probably know that residual stress can affect your products' performance. But chances are that you don't have a fast, easy, and precise way to measure stress. Don't rely on qualitative

Strainoptics Polarimeters, Polariscopes- Measure Stress in ...

Residual stress is process-induced stress, frozen in molded

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plastic parts. It can be either flow-induced or thermal-induced.

Residual stresses affect a part similarly to externally applied stresses.

Residual Stress, molded plastic parts, China mold supplier

Accurate Analysis of Residual Stress in Plastic Sheets. Plastic sheets are the major part of the packaging

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industry. They are used in various ways. They are used to manufacture the packaging wraps, the plastic containers, of distinct shapes sizes and many more other shapes and sizes.

Accurate Analysis of Residual Stress in Plastic Sheets

Residual strain is the permanent deformation that remains after removing

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the stress from a test sample. This deformation can be important for product design and material selection. Standard mechanical test procedures do not take into account the condition of the specimen after stress has been removed.

Residual Tensile Strain Measurement in Polymers | Veryst

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for a more detailed discussion. Non-uniform plastic deformation is by far the most common cause of residual stress, and often accompanies thermal and chemical misfits, but those can sometimes cause...

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