

Material Selection For Thermoplastic Parts Practical And Advanced Information

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thermoplastic materials for parts that may be exposed to steam sterilization is the ability to tolerate repeated cycles of the moisture/temperature combination. Also, parts that are molded with high residual stress levels may begin to see some stress relaxation (annealing) and therefore change dimension or warp when exposed to these temperatures.

Selection of Thermoplastic Materials for Medical Applications
This is very important factor during material selection. For example Nylon, acetal are generally suitable for industrial environments. Temperature, moisture, and UV sun exposure affect plastic part properties and appearance.

Plastics 101: Selecting the Right Material for Injection ...
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Plastic Material Selection For Injection Molding
Thermoplastic materials can be molded into complex shapes, and extruded into fibers and films. Examples of thermoplastic materials are polyethylene, polypropylene, polyvinyl chloride, polystyrene, polyamides, polyesters, and polyurethanes.

Material selection for thermoplastic parts : practical and ...
Plastic Materials Selection Jose M. Perez, Jr. ... Thermoplastic Thermoset ... -Often used in large parts for increasing overall part strength • Fiber length retention critical to effectiveness -Increases potential for part warpage and anisotropy •Costs may increase as regrind should not be used within same part ...

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Thermoplastic Material Selection for Injection Molding: Thermoplastic Material Selection for Injection Molding ... If you're going to mold parts, you might try having a couple test parts in the target material made by our CNC machining service before committing to a mold. Molds are designed to match the shrink rate of a particular resin, so ...

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Use our Thermoplastics Triangle to help you with material selection. Compare amorphous plastics vs semi-crystalline plastics. Also compare commodity, engineering, high performance plastics and imidized materials.

Material Selection for Thermoplastic Parts: Practical and ...
Designers must know that thermoplastics are viscoelastic materials with low modulus, high coefficient of thermal expansion (CTLE—coefficient of thermal linear expansion) and are more or less sensitive to ingredient release, water and moisture uptake. Shrinkage and warpage can affect size and shape of finished parts.

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