

Hypertronics Corporation

D0 Material Standardization

Benefit List

10/14/2009

By standardizing the plastic material to Ultem 1010R black from Lexan will have following benefit:

- Ultem 1010R is one of the material within Ultem 1000 series suitable for Hypertronics D0 series application
- Ultem 1010R is one of the materials that Hypertronics currently uses for D0 series for its major customers
- The D0 product made by Ultem 1010R is autoclaveable, chemical resistant and rated UL94 V-0 flammability
- With the economy of scale, Hypertronics would be able to offer the better material with no price increase to customers
- Eliminate component parts being mixed up once they are distributed or assembled, which could cause potential unexpected result in product applications
- Eliminate one mold to fit different materials with different shrinkage, therefore improving the product in long run when we build new tools
- Simplify the operations to provide better foundation for quality product
- Eliminate set up changes, easy Kanban set up
- Reduce inventory
- Key Properties of Ultem include:
 - Excellent Long-term heat resistance with a relative thermal index (RTI, UL746B) of 338 F
 - Good short-term heat resistance due to a Tg temperature of 423 F
 - Good resistance to a broad range of chemicals, such as automotive fluids, fully halogenated hydrocarbons, alcohols, and aqueous solutions
 - Ability to comply with FDA, EFSA and other national food contact regulations, and various potable water standards
 - Intended for medical compliance to USP Class VI and ISO 10993 for several grades
 - Ability to comply to WEEE/RoHS and various ECO labels for most grades
 - Compatible with vacuum metallization and selected galvanic/plating processes