

Halogen free computing solution with smaller carbon footprint

Halogen free materials support SMT soldering and thinner PCBs

Increasing demand for connectivity and Cloud Computing are placing higher demands on data servers. While data rates increase, higher speeds and the need for more bandwidth require higher pin-counts in connectors and sockets. With space at a premium, server racks require slimmer designs, such as blade server systems using less vertical space and precipitating a move towards Very Low Profile and Ultra Low Profile DDR connectors.

Due to new board designs, servers will gradually move to SMT reflow soldering assembly. However, the trend towards SMT soldering and thinner PCBs and connectors with higher pin-count and thinner pitch necessitates the need to meet significant more stringent warpage requirements.

Lowest total cost solution

DSM offers a full material portfolio covering the housing material for all types of PTH, PiP and SMT connectors and sockets for servers. These materials offer excellent warpage performance, are entirely halogen free, and offer very good mechanical and processing properties in a very broad color range. OEMs benefit not only from an excellent technical solution, but they also gain a lowest total cost solution, excellent material availability and onsite support at OEMs, ODMs and connector manufacturers.

Lower reject rates and better yield

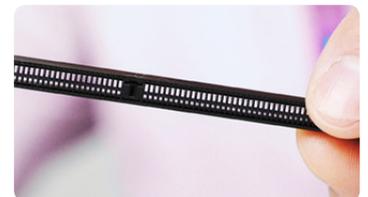
To meet the needs of manufacturers of computer connectors and sockets, DSM has introduced new halogen free Stanyl® and Stanyl® ForTii™ grades.

These are able to support the trends towards SMT soldering, as well as thinner PCBs and connectors with higher pin-count and thinner pitch, all with more stringent warpage requirements.

Halogen free Stanyl and Stanyl ForTii both have excellent warpage characteristics and outperform LCP and LCP/PPS. Compared to PPA, they offer better warpage, the highest flow and good processability combined with best colorability. Overall, DSM's Stanyl and ForTii offer the best in class material solution.

In addition to lower reject rates and better yield, halogen free Stanyl and Stanyl ForTii meet upcoming market trends for sustainable solutions, by delivering a lower carbon footprint, saving 15% compared to PPA and 25% compared to LCP.

Stanyl is already the product of choice in the traditional PTH connector market for servers. With leading OEMs already using both Stanyl and Stanyl ForTii on their servers, and a new growing demand for SMT, ForTii is the best technical and commercial solution.



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