

HYTAC[®] – LP

Syntactic plug assist system for heavy gauge thermoforming

HYTAC-LP is a new epoxy syntactic plug assist system aimed at providing heavy gauge thermoformers with a durable lightweight, low thermal conductivity, castable system that reduces large plug costs while increasing performance. HYTAC-LP will result in improved thickness control and more consistent quality of your final part. HYTAC-LP can also reduce sticking of difficult to process polymers.

HYTAC-LP is a two-part system consisting of a core of partially cured epoxy coated large hollow composite spheres and a skin of thick, non-sloughing syntactic foam.

- **Low Thermal Conductivity and Specific Heat**
The syntactic foam structure of HYTAC-LP maintains the low thermal conductivity desired in a plug assist material.
- **Dimensionally Stable up to 350°F.**
- **Lightweight**
This increases the life of capital equipment due to reduced wear and tear on moving parts.
- **Low Cost**
The system is about half the cost of similar solid syntactic foam plugs.
- **Easily Formed or Machined**
HYTAC-LP may be cast to near net shape and/or machined using conventional equipment.



Applications

HYTAC-LP now makes it possible for heavy gauge thermoforming applications to realize the same material distribution/sheet thickness reductions and energy savings as are expected in thin gauge thermoforming. The exterior skin of the plug, the performance portion of the plug, may be formulated with a variety of HYTAC materials to meet specific application needs.



**Innovative Tooling Materials
for Thermoforming**

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