

HYTAC[®] - LPX

Custom-designed plug assist for heavy-gauge thermoforming

HYTAC-LPX is a new epoxy syntactic plug assist material aimed at providing heavy gauge thermoformers with an economic solution that meets the demands of most large plug requirements.

HYTAC-LPX is available as a solid syntactic or as the outer layer of a two-part system consisting of a core of epoxy coated large, hollow composite spheres and an exterior of high-performance syntactic foam.

Low thermal conductivity and specific heat

The syntactic foam structure of HYTAC-LPX maintains the low thermal conductivity desired in a plug assist material.

Easily machined or formed

HYTAC-LPX may be cast to near net shape and/or machined using conventional equipment.

Typical Properties

Color	Off-white
Density (ρ)	43-47 lb/ft ³ [688-752 kg/m ³]
Thermal Conductivity	0.10 BTU/hr-ft-°F [0.17 W/m ² K]
Coefficient of Thermal Expansion (CTE)	22 x 10 ⁻⁶ in/in/°F [41 x 10 ⁻⁶ m/m/°C]
Compressive Strength	8,530 psi [58.8 MPa]
Service Temperature	350°F [176°C]
Flexural Toughness (ASTM D790)	5.8 psi [39.9 kPa]



Applications

HYTAC-LPX 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.



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