



HYTAC-LPXT is a PTFE-impregnated epoxy syntactic plug assist material aimed at providing heavy gauge thermoformers with a robust solution to challenges associated with large, complex part geometries.

HYTAC-LPXT 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. It has been designed to enhance the cosmetic appearance of formed parts made from TPO and other capped materials.

#### Low thermal conductivity and specific heat

The syntactic foam structure of HYTAC-LPXT maintains low thermal conductivity while providing the release characteristics associated with PTFE.

#### Easily machined or formed

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

#### Applications

HYTAC-LPXT now makes it possible for heavy gauge thermoformers to form engineered plastics such as TPO without mark-off or thin spots while improving cosmetic appearance.

#### Machining and Polishing Guides

HYTAC materials are generally easy to machine and polish. Following the CMT guidelines will improve surface quality and consistency in plug performance.

#### THERMOSET

Color	Light green
Density (p)	53-57 lb/ft <sup>3</sup> [848-913 kg/m <sup>3</sup> ]
Thermal Conductivity (k)	0.10 BTU/hr-ft <sup>2</sup> °F [0.17 W/m <sup>2</sup> K]
Coefficient of Thermal Expansion(CTE)	22 x 10 <sup>-6</sup> in/in/°F [41 x 10 <sup>-6</sup> m/m/°C]
Compressive Strength	16,800 psi [115.8 MPa]
Service Temperature	350°F [176° C]
Flexural Toughness (ASTM D790)	4.9 psi [33.9 kPa]

#### Custom Cast Service

HYTAC LPX is only available as a custom-cast solution. LPX can be used as mold or as a plug. It is fabricated as either a solid syntactic or as a 2-part system with a thick syntactic outer layer and a core of hollow composite spheres. As long as all dimensions are 16" or less, a solid casting will be used. Otherwise, a 2-part system will be used.

#### Dimensional Guidance

