

HYTAC[®] – WFT

High temperature, ultra-smooth,
PTFE impregnated.

HYTAC-WFT combines the higher temperature, smooth surface properties of HYTAC-WF with PTFE impregnation for low stick surface capability and excellent material distribution. The result is a syntactic plug assist material with a service temperature of 425°F that may be polished to an ultra smooth surface.

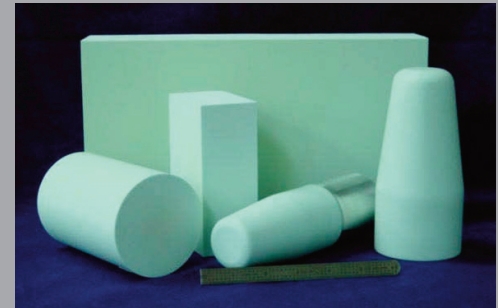
The intended uses of HYTAC-WFT are for the most difficult sheet sticking problems or in situations where an extremely smooth surface is critical to part quality. The material has also found applications in areas where excessive build-up of residue on the plug from the sheet is a problem. It is thought that the low heat transfer properties of the syntactic plug help reduce residue build-up due to the lower plug temperature. The Teflon-enhanced surface makes removal of impurities easy.

As with other syntactic materials, HYTAC-WFT offers the following advantages:

- **Low Thermal Conductivity and Specific Heat**
- **Dimensionally Stable**
- **Excellent Temperature Resistance**
- **Lightweight**
- **Easily Machined**
- **Variety of Shapes and Sizes**
- **Improved Toughness**

Typical Properties

Color	Light Green
Density (ρ)	56 - 60 lb/ft ³ [897 - 961 kg/m ³]
Thermal Conductivity (k)	0.11 BTU/hr-ft-°F [0.19 W/m ² K]
Coefficient of Thermal Expansion (CTE)	20.4 x 10 ⁻⁶ in/in°F [36.7 x 10 ⁻⁶ m/m°C]
Compressive Strength	17,500 psi [120 Mpa]
Service Temperature	425°F [218°C]
Flexural Toughness (ASTM D790)	4.5 Psi [32.4 kPa]



Applications

HYTAC-WFT machines and polishes to an ultra-smooth finish. Recommended for use with CPET, EVOH, LDPE, PC, PMMA, PS and RPET.



**Innovative Tooling Materials
for Thermoforming**

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