

HYTAC[®] – B

Engineered thermoplastic tooling

Sometimes, finer plug assist details are required which are not obtainable or maintainable with syntactic foam plugs. For these high detail applications, where high toughness and easy machinability are required, we have formulated a special blend of engineering thermoplastic polymer. Material removal from the blind side of the plug will result in thermal conductivity and overall heat absorption which approximate syntactic foam's excellent properties.

- **High Toughness and Durability**

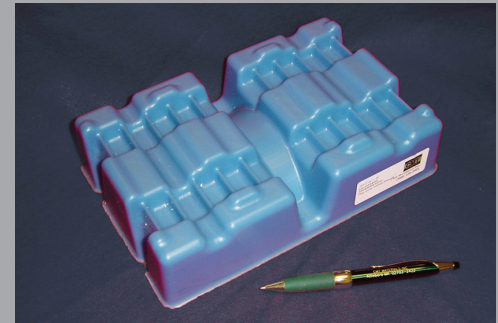
With high toughness, machine downtime due to damaged plugs is reduced. Less downtime = lower costs = more consistent quality.

- **Superb Machinability**

No dust collection equipment or respirators are required due to the large, non-abrasive chips. Plugs can be machined over three times faster than syntactic foam due to the easy chip formation.

- **Excellent Temperature Resistance**

HYTAC-B is specially formulated for service temperatures up to 350°F with minimal loss in mechanical properties.



Applications

HYTAC-B is primarily used as a heat resistant replacement for nylon.

Typically used in shallow draw applications where material distribution is not critical.

Typical Properties

Color	Blue
Density (ρ)	70 - 74 lb/ft ³ [1121 - 1185 kg/m ³]
Thermal Conductivity (k)	0.021 BTU/hr-ft-°F [0.36 W/m ² K]
Coefficient of Thermal Expansion (CTE)	37 x 10 ⁻⁶ in/in°F [67 x 10 ⁻⁶ m/m/°C]
Compressive Strength	12,000 psi [83 Mpa]
Service Temperature	350°F [176°C]



Innovative Tooling Materials
for Thermoforming

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