

HYTAC[®] – FLX

Good durability, easily machined
& polished copolymer syntactic

HYTAC-FLX has been improved for optimum performance in transparent applications. The enhanced formulation is easy to polish and results in minimal to no scratches with transparent sheet materials. The formulation has been designed to minimize chilling of the sheet and bring more material into the tool resulting in improved material distribution.

FLX may be used in plug applications with a wide range of polymer sheet material and provides easy machining and polishing plus very good durability. As compared to standard thermoset epoxy syntactics, FLX has nearly 3X the flexural toughness and more than 4X the elongation to break.

HYTAC-FLX has these outstanding attributes:

- **Minimal to no Scratching**
- **Good Dimensional Stability**
- **Excellent Toughness and Durability**
- **Superb Machinability**
- **Temperature Resistance**
- **Low Thermal Conductivity**

Typical Properties

Color	Pink
Density (ρ)	44-48 lb/ft ³ [705-769 kg/m ³]
Thermal Conductivity (k)	0.065 BTU/hr-ft-°F [0.11 W/m ² K]
Coefficient of Thermal Expansion (CTE)	23 x 10 ⁻⁶ in/in/°F [42.0 x 10 ⁻⁶ m/m/°C]
Compressive Strength	13,350 psi [92.0 Mpa]
Service Temperature	350 °F [176 °C]
Flexural Toughness (ASTM D790)	7.6 Psi [52.4 kPa]



Applications

HYTAC-FLX is a top choice for optical clarity with PET, provides excellent polymer yields as a result of better material distribution/lower starting gauge requirements and is more than double the flexural toughness of standard syntactic foams.

Recommended for use with APET, CPET, HIPS, OPS, PETG, PLA, PP, PVC and RPET.



**Innovative Tooling Materials
for Thermoforming**

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