

# Thermoplastic Syntactic Foam



HYTAC-XTL is the latest generation of syntactic foams with enhanced toughness and superior machinability. This material is easy to machine and polish without dust. HYTAC-XTL is suitable for a wide range of plastics and allows users to machine fine details.

### Thermoforming applications

- PET
- PP
- PS
- PVC
- PLA

### Benefits

- Strongest available syntactic foam
- Dust-free machining and polishing.
- Widely suitable with nearly all plastics
- Excellent material distribution.

### 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.

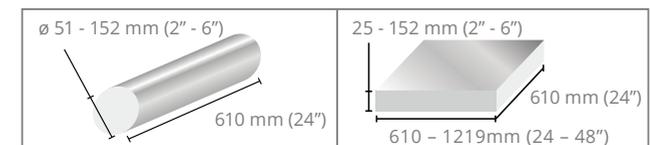
THERMOPLASTIC	
Material	XTL
Color	Mauve
Density (ρ)	42-46lb/ft3 [672-737 kg/m3]
Thermal Conductivity (k)	0.10 BTU/hr-ft-°F [0.17 W/m²K]
Coefficient of Thermal Expansion(CTE)	32 x 10 <sup>-6</sup> in/in/°F [57.6 x 10 <sup>-6</sup> m/m/°C]
Compressive Strength	10,215 psi [70.4 Mpa]
Service Temperature	350°F [176°C]
Flexural Toughness (ASTM D790)	23.7 Psi [163.4 kPa]

### Custom Cut Service



Get your material custom cut!  
Contact CMT Materials for information and prices.

### Standard Dimensions (larger rod diameters available on request)



W / WF / WFT / FLX / FLXT / C1R: standard tolerances are +0%, -1.5% of thickness or diameter.  
B1X / XTL: standard tolerances are +0.187" (5mm), - 0.0" (0mm) of thickness or diameter.