



## QWIK GUIDE: ISO-CF/HT™ POLYISO FOAM CORE

ISO-CF/HT is Dyplast's polyisocyanurate rigid, closed cell, foam insulation for higher temperature foam core composite applications up to 350°F (177°C), with intermittent exposure up to 375°F (190°C). ISO-CF/HT is suitable for constant temperature or heat cycling environments. ISO-CF/HT has extraordinary insulation attributes and is certified by independent laboratory to meet demanding Class 1 flame spread and smoke development requirements per ASTM E84. Dyplast offers ISO-CF/HT in virtually any size, shape or configuration with tolerances up to 1/32 inch on surfaces. Our extensive fabrication capabilities can provide special cuts and shapes that comply with virtually any composite application; or we can supply large bunstock or blocks for end-user fabrication.

### KEY PHYSICAL PROPERTIES:

Nominal Density (pcf)	ASTM D1622	2.0 – 6.0
Thermal Conductivity at +75°F -- nominal Aged	ASTM C177	0.18
Closed Cell Content (nominal)	ASTM D2856	95
Compressive Strength at +73°F	ASTM D1621	39 to 150
Dimensional Stability across temperatures	ASTM D2126	-1 to +1
Surface Burning Characteristics	ASTM E84 Flame/Smoke @ 4" thick	Class 1

### SPECIFICATIONS:

ISO-CF/HT is designed for use where temperatures range from -297°F to +350°F, making it ideal for cryogenic/low-temperature applications as well as the higher temperatures often encountered in composite applications that may reach as high as +375°F intermittently. ISO-CF/HT may also be an ideal solution for panel insulation for transportation containers, and core material for architectural and panel construction.

### SUMMARY:

ISO-CF/HT is quite unique since, as a closed-cell thermoset rigid foam core, offers performance effective from cryogenic temperatures up through 350°F (177°C) - - while offering impressive thermal insulation characteristics not available in alternative structural foam cores, with:

- high-volume
- quick-turnaround
- precise dimensional tolerance
- sheets, blocks, or fabricated shapes typically much larger and diverse than alternatives.

ISO-CF/HT has excellent strength-to-weight ratios and rigidity, and when combined with Dyplast's high-volume production and quick turn-around capabilities, our composite products are superior to the vast majority of composite substrate alternatives. When our superior thermal conductivity is considered, Dyplast's ISO-CF/HT should be at the top of the selection list!