

Copolymer Syntactic Foam

HYTAC-C1R copolymer syntactic foam provides high friction and the highest durability of any copolymer syntactic foam. HYTAC-C1R is designed for deep draw applications and any other applications where high friction is needed. It may be polished to a very smooth surface when necessary for working with transparent plastics.

Thermoforming applications

- PET
- PP
- PS
- PVC
- PLA

Benefits

- High friction for deep draw applications
- Excellent surface characteristics
- Highest durable copolymer syntactic foam
- Easy to machine and to polish

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.

COPOLYMER

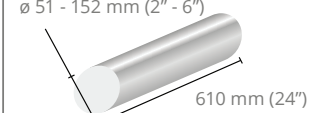
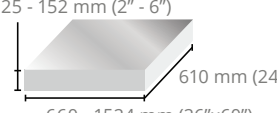
Material	C1R
Color	Slate Blue
Density (ρ)	50-54 lb/ft ³ [800-864 kg/m ³]
Thermal Conductivity (k)	0.07 BTU/hr-ft-°F [0.12 W/m-°K]
Coefficient of Thermal Expansion(CTE)	35 x 10 ⁻⁶ in/in-°F [63 x 10 ⁻⁶ m/m-°C]
Compressive Strength	6,960 psi [48 MPa]
Service Temperature	350°F [176°C]
Flexural Toughness (ASTM D790)	11.3 Psi [77.9 kPa]

Custom Cut Service



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Contact CMT Materials for
information and prices.

Standard Dimensions (larger rod diameters available on request)

 <p>ø 51 - 152 mm (2" - 6") 610 mm (24")</p>	 <p>25 - 152 mm (2" - 6") 610 mm (24") 660 - 1524 mm (26"x60")</p>
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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.