

## CMT Materials HYTAC® C1R Highly Durable Syntactic Foam, Dust-Free Machining/Polishing

Category : Polymer , Thermoset , Epoxy

### Material Notes:

HYTAC-C1R is easily machined without the dust typically associated with epoxy syntactic foam. This new copolymer base has been optimized for both the machine shop and the thermoforming process. Excellent surface characteristics are obtained straight from machining and may be easily modified with sandpaper to carry more or less material into the mold as needed. It may be polished to a very smooth surface when necessary for working with transparent plastics. HYTAC-C1R has these outstanding attributes: 3 – 4X the toughness of epoxy-based syntactic foam Good machinability Superior edge definition and detail Very low thermal conductivity Excellent material distribution Variety of Shapes and Sizes: The material is provided in standard sized rods or sheets, but may be custom molded to meet the specific needs. Applications: HYTAC-C1R is the first material to combine the durability of a thermoplastic syntactic with the dust free, easy machining and polishing capability of a copolymer syntactic foam. Excellent surface characteristics optimize material distribution with most plastics. Recommended for use with APET, CPET, HIPS, PETG, PLA, PP, PVC and RPET. Information Provided by CMT Materials, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMT-Materials-HYTAC-C1R-Highly-Durable-Syntactic-Foam-Dust-Free-MachiningPolishing.php](http://www.lookpolymers.com/polymer_CMT-Materials-HYTAC-C1R-Highly-Durable-Syntactic-Foam-Dust-Free-MachiningPolishing.php)

Physical Properties	Metric	English	Comments
Density	0.737 g/cc	0.0266 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Flexural Toughness	0.0779 MPa	11.3 psi	ASTM D790
Compressive Strength	47.99 MPa	6960 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 µm/m-°C	35.0 µin/in-°F	
Thermal Conductivity	0.130 W/m-K	0.902 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	177 °C	350 °F	

Descriptive Properties	Value	Comments
Color	Slate Blue	

## Contact Songhan Plastic Technology Co.,Ltd.

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