

CMT Materials HYTAC® WF High Strength High Clarity 450°F Epoxy Syntactic

Category : Polymer , Thermoset , Epoxy

Material Notes:

HYTAC-WF is an excellent high temperature epoxy syntactic material that provides improved clarity when forming APET and other clear polymers plus reduces sticking of difficult to process polymers such as HDPE or CPET. Dimensionally Stable: The low coefficient of thermal expansion means the plug maintains its shape over a wide temperature range. Smooth Surface: The glass sphere used in HYTAC-WF has a diameter more than 50% lower than those found in conventional syntactic materials, which translates to a smoother surface. Excellent Temperature Resistance: HYTAC-WF is specially formulated with an epoxy resin that maintains a high modulus at elevated temperatures. Lightweight: This increases the life of capital equipment due to reduced wear and tear on moving parts. Easily Machined: HYTAC-WF can be easily machined to any size or shape using conventional equipment. 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-WF utilizes microspheres with a diameter less than half the size of those used in conventional epoxy syntactic foams. This results in a surface that may be easily polished to a very smooth surface for improved part clarity. Recommended for use with APET, CPET, HDPE, OPS, PC, PETG, PMMA, PVC and RPET. Information Provided by CMT Materials, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMT-Materials-HYTAC-WF-High-Strength-High-Clarity-450F-Epoxy-Syntactic.php

Physical Properties	Metric	English	Comments
Density	0.849 - 0.913 g/cc	0.0307 - 0.0330 lb/in ³	

Mechanical Properties	Metric	English	Comments
Flexural Toughness	0.0324 MPa	4.70 psi	ASTM D790
Compressive Strength	124 MPa	18000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	32.4 µm/m-°C	18.0 µin/in-°F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	232 °C	450 °F	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Descriptive Properties	Value	Comments
Color	White	

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