

CMT Materials HYTAC® B Solid Polymer Tooling Material

Category : Polymer , Thermoplastic

Material Notes:

Sometimes, finer plug assist details are required which are not obtainable or maintainable with syntactic foam plugs. For these high detail applications, where high toughness and easy machinability are required, we have formulated a special blend of engineering thermoplastic polymer. Material removal from the blind side of the plug will result in thermal conductivity and overall heat absorption which approximate syntactic foam's excellent properties. High Toughness and Durability: With high toughness, machine downtime due to damage plugs is reduced. Less downtime = lower costs = more consistent quality. Good Machinability: No dust collection equipment or respirators are required due to the large, non-abrasive chips. Plugs can be machined over 3x faster than syntactic foam due to the easy chip formation. Excellent Temperature Resistance: HYTAC-B is specially formulated for service temperatures up to 350°F with minimal loss in mechanical properties. Variety of Shapes and Sizes: The material is provided in standard sized sheets. Applications: HYTAC-B is primarily used as a heat resistant replacement for nylon. Typically used in shallow draw applications where material distribution is not critical. Information Provided by CMT Materials, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMT-Materials-HYTAC-B-Solid-Polymer-Tooling-Material.php

Physical Properties	Metric	English	Comments
Density	1.12 - 1.19 g/cc	0.0405 - 0.0428 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Strength	82.7 MPa	12000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	177 °C	350 °F	

Descriptive Properties	Value	Comments
Color	Blue	

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