

CMT Materials HYTAC® B1X High Durability Thermoplastic Syntactic

Category : Polymer

Material Notes:

HYTAC-B1X is the first plug assist material to combine the toughness of an engineered thermoplastic with the low thermal conductivity of syntactic foam. Plug assist made from HYTAC-B1X will resist the chips and dings associated with production abuse while reducing mark-off and sticking of difficult to process polymers. High Toughness and Durability: With high toughness, machine downtime due to damaged 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. No more complaints from your machinists. Excellent Temperature Resistance: HYTAC-B1X is specially formulated for service up to 350 °F with minimal loss in mechanical properties. Variety of Shapes and Sizes: The material is provided in standard sized rods or sheets and may also be custom cut to meet your specific needs. Applications: HYTAC-B1X is a top choice for complex, demanding geometries where clarity and/or material distribution are critical. Excellent where tight plug assist tolerances and plug durability are needed. Recommended for use with PP, PE, APET, CPET, HIPS, OPS, PETG, PLA, PS, PVC and RPET. Information Provided by CMT Materials, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMT-Materials-HYTAC-B1X-High-Durability-Thermoplastic-Syntactic.php

Physical Properties	Metric	English	Comments
Density	0.641 - 0.721 g/cc	0.0231 - 0.0260 lb/in ³	

Mechanical Properties	Metric	English	Comments
Flexural Toughness	0.0800 MPa	11.6 psi	
Compressive Strength	49.0 MPa	7100 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	67.7 µm/m-°C	37.6 µin/in-°F	
Thermal Conductivity	0.180 W/m-K	1.25 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	177 °C	350 °F	

Descriptive Properties	Value	Comments
Color	Light Blue	

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