

## CMT Materials HYTAC® FLXT High Temperature, PTFE Impregnated Copolymer Syntactic

Category : Polymer , Thermoset , Epoxy

### Material Notes:

HYTAC-FLXT is a unique material, combining the toughness and higher friction of FLX with improved release characteristic through PTFE impregnation. The result is a new, tough syntactic with just the right blend of properties at the plug/sheet interface. The low thermal conductivity and specific heat allow the proper material distribution; yet this rugged syntactic may be easily polished to a smooth surface for an excellent finish. This provides an ideal combination of the surface friction properties; sufficient drag to insure consistent part thickness even in deep draw applications while the PTFE-enhanced release characteristics eliminate part sticking. FLXT is especially useful when thermoforming multi-layer films, providing excellent material distribution and reduced mark-off. These benefits are accomplished even when forming some of the multi-layer films with PE inner surfaces as well as EVOH containing multilayers. FLXT is offers the machining benefit of little or no dust and minimal wear on tools. HYTAC-FLXT offers these outstanding attributes: Good machinabilityExcellent forming characteristicsExcellent release propertiesGood dimensional stabilityExcellent toughness and durabilityTemperature resistanceFDA compliance for food applicationsLow thermal conductivity 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-FLXT incorporates PTFE directly into a higher friction syntactic structure to ensure consistent material distribution without sticking/material buildup on the plug surface, even in deep draw applications. It has also proven to be highly effective with multilayer films.Recommended for use with CPET, EVOH, LDPE, PC and RPETInformation Provided by CMT Materials, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMT-Materials-HYTAC-FLXT-High-Temperature-PTFE-Impregnated-Copolymer-Syntactic.php](http://www.lookpolymers.com/polymer_CMT-Materials-HYTAC-FLXT-High-Temperature-PTFE-Impregnated-Copolymer-Syntactic.php)

Physical Properties	Metric	English	Comments
Density	0.785 - 0.817 g/cc	0.0284 - 0.0295 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Flexural Toughness	0.0517 MPa	7.50 psi	ASTM D790
Compressive Strength	93.08 MPa	13500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	36.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	20.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	177 °C	350 °F	

Descriptive Properties	Value	Comments
Color	Dark Green	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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