

Trelleborg Emerson & Cuming Eccolite® Composite Materials Ultra Syntactic Foam

Category : Polymer , Thermoplastic

Material Notes:

Eccolite Ultra syntactic foam plug assist materials a new engineered thermoplastic compound incorporating Eccospheres, glass microspheres. It is one of the toughest materials designed for the thermoforming plug assist application and boasts an exceptionally high temperature characteristic in withstanding 220°C in service temperatures. Using conventional tooling, machining of this product is practically dust and ribbon free while its ease of machinability allows Eccolite Ultra syntactic foam to be readily tapped for threaded inserts. Information provided by Emerson & Cuming Composite Materials

Order this product through the following link:

http://www.lookpolymers.com/polymer_Trelleborg-Emerson-Cuming-Eccolite-Composite-Materials-Ultra-Syntactic-Foam.php

Mechanical Properties	Metric	English	Comments
Compressive Strength	69.0 MPa	10000 psi	
Compressive Modulus	2.365 GPa	343.0 ksi	
Izod Impact, Unnotched	0.720 J/cm	1.35 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	44.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.48 J/g-°C	0.354 BTU/lb-°F	
Thermal Conductivity	0.165 W/m-K	1.15 BTU-in/hr-ft ² -°F	
Melting Point	220 °C	428 °F	

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