

## **CeramTec Ceramtape GC Glass Ceramic**

Category: Ceramic, Glass, Glass Ceramic

## **Material Notes:**

LTCC (Low Temperature Cofired Ceramic) is a new type of ceramic film developed by CeramTec AG's Electronics division. With the aid of these ceramics and their almost shrinkage-free sintering process, highly complex multilayer assemblies for electronic applications are possible. Apart from the automotive sector, LTCC is also ideally suited for the up-and-coming Bluetooth applications, medical apparatus, and consumer electronics. In the automotive sector, it is used for motor-management and ABS-systems. Ceramtape GC is a glass ceramic made of alumina and anorthite.

## Order this product through the following link:

http://www.lookpolymers.com/polymer\_CeramTec-Ceramtape-GC-Glass-Ceramic.php

Physical Properties	Metric	English	Comments
Bulk Density	1.63 - 1.93 g/cc	0.0589 - 0.0697 lb/in <sup>3</sup>	Green
Density	2.87 - 2.97 g/cc	0.104 - 0.107 lb/in <sup>3</sup>	Fired
Thickness	40.0 - 60.0 microns	1.57 - 2.36 mil	PET
	324 - 396 microns	12.8 - 15.6 mil	Blank on PET

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 170 MPa	>= 24700 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	4.90 - 5.70 μm/m-°C	2.72 - 3.17 μin/in-°F	
Thermal Conductivity	1.20 - 3.20 W/m-K	8.33 - 22.2 BTU-in/hr- ft²-°F	
Shrinkage	17.5 - 18.5 %	17.5 - 18.5 %	2-layer Laminate; z-direction
	20.5 - 21.5 %	20.5 - 21.5 %	2-layer Laminate; x-direction
	20.9 - 21.9 %	20.9 - 21.9 %	2-layer Laminate; y-direction

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
	7.3 - 8.5	7.3 - 8.5	
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	>= 100 kV/mm	>= 2540 kV/in	



Electrical Properties	e= 0 0020 Metric	es 0.0020 English	Comments
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Value	Comments
1 to 6	Firing Conditions
10 to 40	Firing Conditions
1 to 4	Firing Conditions
50-130	
30-80	
0.5-3	
880-920	Firing Conditions
	1 to 6  10 to 40  1 to 4  50-130  30-80  0.5-3

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

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