

## MarkeTech Ceraflex 3Y Thin Zirconia Ceramic, Yttria Stabilized

Category: Ceramic, Oxide, Zirconium Oxide

## **Material Notes:**

Data provided by the supplier, MarkeTech International.3 mole% Y2O3 (5.35 wt%). CERAFLEX is a sintered and fully dense zirconia ceramic material that is formed into extremely thin sheets, that are both flexible and highly resilient. The high strength of CERAFLEX makes it easier to handle than other ceramic materials of the same thickness. CERAFLEX is available as strips, sheets, or custom parts. It is either partially or fully stabilized with yttria. The fully stabilized material is an oxygen ion conductor and used to build solid oxide fuel cells and oxygen sensors. A new cesium stabilized material (CERAFLEX:Cs) with much better electrical conductivity is now available. Properties and availability: Flatness 50 µm/in. Surface roughness 0.1 µm. Bending strength 120 kgf. Standard thicknesses 0.100 & 0.200 mm (up to 0.5 mm). Maximum size 200 x 200 mm.

## Order this product through the following link:

http://www.lookpolymers.com/polymer\_MarkeTech-Ceraflex-3Y-Thin-Zirconia-Ceramic-Yttria-Stabilized.php

Physical Properties	Metric	English	Comments
Density	6.00 g/cc	0.217 lb/in³	

Thermal Properties	Metric	English	Comments
CTE, linear	9.90 Âμm/m-°C	5.50 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	3.20 W/m-K	22.2 BTU-in/hr-ft²- °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	20.0 ohm-cm	20.0 ohm-cm	
	@Temperature 1000 °C	@Temperature 1830 °F	
	30.0 ohm-cm	30.0 ohm-cm	
	@Temperature 900 °C	@Temperature 1650 °F	
	50.0 ohm-cm	50.0 ohm-cm	
	@Temperature 800 °C	@Temperature 1470 °F	
	100 ohm-cm	100 ohm-cm	
	@Temperature 700 °C	@Temperature 1290 °F	
	280 ohm-cm	280 ohm-cm	



Electrical Properties

@Temperature 600 ŰC
Metric

@Temperature 1110
English

Comments

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

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