

## Plansee CFY Chromium-Iron-Yttrium

Category : Metal , Nonferrous Metal

**Material Notes:**

The most typical use for CFY is as interconnects in fuel cells. Characteristics: Coefficient of expansion - designed for compatibility with that of the electrolyte in fuel cells Corrosion resistance - to aerial oxygen and high hydrogen concentrations at operating temperatures up to 850°C. Good thermal stability Good creep resistance Information provided by Plansee.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plansee-CFY-Chromium-Iron-Yttrium.php](http://www.lookpolymers.com/polymer_Plansee-CFY-Chromium-Iron-Yttrium.php)

Physical Properties	Metric	English	Comments
Specific Gravity	7.19 g/cc	7.19 g/cc	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	8.88 $\mu\text{m}/\text{m}\cdot\text{°C}$	4.93 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 300 °C	@Temperature 572 °F	
	9.19 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.11 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 400 °C	@Temperature 752 °F	
	9.50 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.28 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 500 °C	@Temperature 932 °F	
	9.80 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.44 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 600 °C	@Temperature 1110 °F	
10.1 $\mu\text{m}/\text{m}\cdot\text{°C}$		5.61 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 700 °C	@Temperature 1290 °F	
10.5 $\mu\text{m}/\text{m}\cdot\text{°C}$		5.83 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 800 °C	@Temperature 1470 °F	
10.8 $\mu\text{m}/\text{m}\cdot\text{°C}$		6.00 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 900 °C	@Temperature 1650 °F	

Component Elements Properties	Metric	English	Comments
Chromium, Cr	<= 95 %	<= 95 %	
Iron, Fe	5.0 %	5.0 %	

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

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