

## Goodfellow Leachable Ceramic (Silica, Zircon, Alumina)

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

SiO<sub>2</sub> 50/ZrSiO<sub>4</sub> 40/Al<sub>2</sub>O<sub>3</sub> 10 This form of ceramic is used in the precision foundry industry. The tubes and rods are incorporated into molds in the lost wax process. Using this technique, very fine tolerances on diameter can be obtained. The ceramic is leached away by the using sodium hydroxide solution once the metal has solidified. This leachable ceramic has a high porosity, does not have an organic binder, but does absorb water. Information provided by Goodfellow.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Goodfellow-Leachable-Ceramic-Silica-Zircon-Alumina.php](http://www.lookpolymers.com/polymer_Goodfellow-Leachable-Ceramic-Silica-Zircon-Alumina.php)

Physical Properties	Metric	English	Comments
Density	2.10 g/cc	0.0759 lb/in <sup>3</sup>	
Water Absorption at Saturation	14 %	14 %	
Porosity	25 %	25 %	apparent

Thermal Properties	Metric	English	Comments
CTE, linear	1.98 µm/m-°C @Temperature 20.0 - 1000 °C	1.10 µin/in-°F @Temperature 68.0 - 1830 °F	
Maximum Service Temperature, Air	1050 °C	1920 °F	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	10 %	10 %	
SiO <sub>2</sub>	50 %	50 %	

Descriptive Properties	Value	Comments
Chemical Resistance - Alkalis	Poor	
Chemical Resistance - Concentrated Acids	Fair	
Chemical Resistance - Dilute Acids	Fair	
Chemical Resistance - Halogens	Fair	
Chemical Resistance - Metals	Good	

## Contact Songhan Plastic Technology Co.,Ltd.

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