

## China-Yixing Longly Refractories Slab SiC

Category : Ceramic , Carbide

### Material Notes:

SiC series products of SiC shelf boards, SiC pillars, SiC slab, SiC seggar kiln furniture, are formed using high-quality silicon carbide materials and high temperature binders by tons of high-vibration or hydraulic machine to suppress, high-temperature shuttle kiln firing; products performance and stability excellent, thermal shock good, oxidation resistance good, wear resistance excellent, heat-shock excellent, not slag off, long service life. The appearance of products formed, smooth, high-volume density, good thermal conductivity, energy-saving effect significant. Applications: Widely used in a variety of tunnel kiln, roller kiln, shuttle kiln production of sanitary ceramics, daily-use ceramics, art ceramics, magnetic materials, powder metallurgy, electrical porcelain, industrial ceramics, as well as refractory products, such as the firing

Information Provided by China Yixing Longly Refractories Co. Ltd

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_China-Yixing-Longly-Refractories-Slab-SiC.php](http://www.lookpolymers.com/polymer_China-Yixing-Longly-Refractories-Slab-SiC.php)

Physical Properties	Metric	English	Comments
Bulk Density	2.60 - 2.70 g/cc	0.0939 - 0.0975 lb/in <sup>3</sup>	
Porosity	15 - 16 %	15 - 16 %	Apparent

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 480 MPa	>= 69600 psi	cold bending
	>= 500 MPa	>= 72500 psi	high temp bending
Compressive Strength	>= 800 MPa	>= 116000 psi	Ambient

Thermal Properties	Metric	English	Comments
CTE, linear	2.60 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	1.44 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Volumetric thermal expansion
Thermal Conductivity	16.5 - 17.5 W/m-K	115 - 121 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	>= 1450 °C	>= 2640 °F	

Component Elements Properties	Metric	English	Comments
SiC	>= 85 %	>= 85 %	

Descriptive Properties	Value	Comments
Refractoriness (°C)	>1400	Under load temperature, 0.2 MPa, 0.6%
Thermal Shock Resistance Times	50	1100°C water cooling

## Contact Songhan Plastic Technology Co.,Ltd.

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