

## CoorsTek ADD-96 96% Alumina

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CoorsTek-ADD-96-96-Alumina.php](http://www.lookpolymers.com/polymer_CoorsTek-ADD-96-96-Alumina.php)

Physical Properties	Metric	English	Comments
Density	3.81 g/cc	0.138 lb/in <sup>3</sup>	ASTM-C 20
Particle Size	6.0 μm	6.0 μm	Average Crystal Size; THIN-SECTION

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 45 N	81	81	
Modulus of Elasticity	354 GPa	51300 ksi	ASTM-C848
Flexural Strength	385 MPa	55800 psi	MOR; ASTM-F417
Compressive Strength	2450 MPa	355000 psi	ASTM-C773
Poissons Ratio	0.26	0.26	ASTM-C848
Fracture Toughness	3.00 - 4.00 MPa-m <sup>1/2</sup>	2.73 - 3.64 ksi-in <sup>1/2</sup>	KIc; Notched Beam
Shear Modulus	140 GPa	20300 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	8.20 μm/m-°C	4.56 μin/in-°F	ASTM-C372
	@Temperature 25.0 - 1000 °C	@Temperature 77.0 - 1830 °F	
Thermal Conductivity	24.7 W/m-K	171 BTU-in/hr-ft <sup>2</sup> -°F	ASTM-C408
Maximum Service Temperature, Air	1700 °C	3090 °F	NO-LOAD COND.

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	96 %	96 %	Nominal

Descriptive Properties	Value	Comments
Color	Brown	
Thermal Shock Resistance (°C)	250	&#916;Tc

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

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**