

## Old Hickory 44-B Kentucky Ball Clay

Category : Ceramic , Clay , Ball Clay

### Material Notes:

The 44-B clay is similar to 54-S and is a recommended selection where additional plasticity and strength are important. It is particularly recommended in extruded and plastic processed ceramic formulas such as electrical porcelain and tableware. The 44-B can also be used in monoporosa and monocuttura tile bodies for additional press density and strength especially for a large dimension shapes. Information provided by Old Hickory Clay Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Old-Hickory-44-B-Kentucky-Ball-Clay.php](http://www.lookpolymers.com/polymer_Old-Hickory-44-B-Kentucky-Ball-Clay.php)

Physical Properties	Metric	English	Comments
Particle Size	0.45 µm	0.45 µm	Median particle diameter
	0.50 µm	0.50 µm	52% of particles less than
	1.0 µm	1.0 µm	62% of particles less than
	<= 5.0 µm	<= 5.0 µm	83% of particles less than
pH	6.3	6.3	
Soluble Sulfates	520 ppm	520 ppm	
Specific Surface Area	19.2 m <sup>2</sup> /g	19.2 m <sup>2</sup> /g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00448 GPa	0.650 ksi	Dry Modulus of Rupture for 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	5.0 %	5.0 %	Cone 04, Linear Fired Shrinkage
	5.8 %	5.8 %	Cone 3, Linear Fired Shrinkage
	6.3 %	6.3 %	Linear Drying Shrinkage
	6.7 %	6.7 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	28.5 %	28.5 %	
CaO	0.15 %	0.15 %	
Fe <sub>2</sub> O <sub>3</sub>	1.15 %	1.15 %	

Component Elements Properties	Metric	English	Comments
Loss on Ignition(%)	9.5 %	9.5 %	
MgO	0.16 %	0.16 %	
Na2O	0.10 %	0.10 %	
SiO2	57.7 %	57.7 %	
TiO2	1.52 %	1.52 %	

Descriptive Properties	Value	Comments
Absorption (%)	10.1	Cone 04, Fired
	3.5	Cone 11, Fired
	8.6	Cone 3, Fired
CEC/MBI (meg/100 ml)	10	
Crude Color	Light Grey	
Filtration (ml)	19	
Pyrometric Cone Equivalent (PCE)	29-31	
Water of Plasticity (%)	33	
Wet Sieve Residue (%)	0.8	Wet Sieve Residue, +200 mesh

## 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