

Old Hickory M-44 Kentucky Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

A highly plastic clay blend containing kaolin and other mixed layer minerals. It is white firing with excellent vitrification properties for use in whiteware ceramic casting, pressing, or plastic forming compositions. Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-M-44-Kentucky-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.50 µm	0.50 µm	44% of particles less than
	0.73 µm	0.73 µm	Median particle diameter
	1.0 µm	1.0 µm	58% of particles less than
	<= 5.0 µm	<= 5.0 µm	83% of particles less than
pH	6.0	6.0	
Soluble Sulfates	285 ppm	285 ppm	
Specific Surface Area	25.6 m ² /g	25.6 m ² /g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00531 GPa	0.770 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
	6.7 %	6.7 %	Cone 11, Linear Fired Shrinkage
	6.8 %	6.8 %	Linear Drying Shrinkage

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	27.5 %	27.5 %	
CaO	0.19 %	0.19 %	
Fe ₂ O ₃	1.62 %	1.62 %	
K ₂ O	1.24 %	1.24 %	
Loss on Ignition(%)			

Component Elements Properties	0.59 % Metric	0.59 % English	Comments
MgO	0.59 %	0.59 %	
Na2O	0.10 %	0.10 %	
SiO2	57.68 %	57.68 %	
TiO2	1.5 %	1.5 %	

Descriptive Properties	Value	Comments
Absorption (%)	10.1	Cone 04, Fired
	3.6	Cone 11, Fired
	8.6	Cone 3, Fired
CEC/MBI (meg/100 ml)	10.4	
Crude Color	Light Grey	
Filtration (ml)	19	
Pyrometric Cone Equivalent (PCE)	31	
Water of Plasticity (%)	33	
Wet Sieve Residue (%)	1.04	Wet Sieve Residue, +200 mesh

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