

Old Hickory 54-S Kentucky Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

This ball clay is a multi- purpose clay that has excellent pressing, extrusion, and casting qualities. It has a moderately fine particle size distribution and the high plasticity and dry strength is due in part to unique mineralogy of the clay. The low total carbon content provides excellent oxidation characteristics to a variety of ceramic process formulas. Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-54-S-Kentucky-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.50 µm	0.50 µm	48% of particles less than
	0.63 µm	0.63 µm	Median particle diameter
	1.0 µm	1.0 µm	60% of particles less than
	<= 5.0 µm	<= 5.0 µm	84% of particles less than
pH	5.8	5.8	
Soluble Sulfates	400 ppm	400 ppm	
Specific Surface Area	22.4 m ² /g	22.4 m ² /g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00434 GPa	0.630 ksi	Dry Modulus of Rupture for 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	5.1 %	5.1 %	Cone 04, Linear Fired Shrinkage
	6.0 %	6.0 %	Cone 3, Linear Fired Shrinkage
	6.5 %	6.5 %	Linear Drying Shrinkage
	7.2 %	7.2 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
Al2O3	28.44 %	28.44 %	
CaO	0.16 %	0.16 %	
Fe2O3	1.28 %	1.28 %	
K2O	0.89 %	0.89 %	

Component Elements Properties	Metric	English	Comments
MgO	0.42 %	0.42 %	
Na2O	0.090 %	0.090 %	
SiO2	57.09 %	57.09 %	
TiO2	1.93 %	1.93 %	

Descriptive Properties	Value	Comments
Absorption (%)	12.1	Cone 04, Fired
	4.4	Cone 11, Fired
	9.6	Cone 3, Fired
CEC/MBI (meg/100 ml)	8.9	
Crude Color	Light Grey	
Filtration (ml)	21	
Pyrometric Cone Equivalent (PCE)	31-32	
Water of Plasticity (%)	32	
Wet Sieve Residue (%)	0.92	Wet Sieve Residue, +200 mesh

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