Old Hickory Thomas Tennessee Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

Thomas clay is similar to Volunteer clay and has established an excellent history of performance in stoneware and low fire (talc base) plastic and casting formulas. The diverse combination of clays provide enhanced plasticity to a ceramic composition through increased particle packing density. Thomas clay has very good fired brightness and oxidation qualities.Information provided by Old Hickory Clay Company

Order this product through the following link:
http://www.lookpolymers.com/polymer_Old-Hickory-Thomas-Tennessee-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.38 µm	0.38 µm	Median particle diameter
	0.50 µm	0.50 µm	56% of particles less than
	1.0 µm	1.0 µm	66% of particles less than
	<= 5.0 µm	<= 5.0 µm	85% of particles less than
pH	5.3	5.3	
Soluble Sulfates	190 ppm	190 ppm	
Specific Surface Area	21.7 m²/g	21.7 m²/g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00352 GPa	0.510 ksi	Dry Modulus of Rupture, 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	5.7 %	5.7 %	Cone 04, Linear Fired Shrinkage
	6.6 %	6.6 %	Cone 3, Linear Fired Shrinkage
	6.8 %	6.8 %	Linear Drying Shrinkage
	8.1 %	8.1 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
Al2O3	27.95 %	27.95 %	
CaO	0.11 %	0.11 %	
Fe2O3	1.1 %	1.1 %	

Component Elements Properties	Metric	English	Comments
K2O	0.46 %	0.46 %	
Loss on Ignition(%)	9.56 %	9.56 %	
MgO	0.33 %	0.33 %	
Na2O	0.080 %	0.080 %	
SiO2	58.34 %	58.34 %	
TiO2	1.97 %	1.97 %	

Descriptive Properties	Value	Comments
Absorption (%)	10.6	Cone 3, Fired
	15.7	Cone 04, Fired
	3.6	Cone 11, Fired
CEC/MBI (meg/100 ml)	7.7	
Crude Color	Light Brown	
Filtration (ml)	27	
Pyrometric Cone Equivalent (PCE)	31	
Water of Plasticity (%)	34	
Wet Sieve Residue (%)	0.53	Wet Sieve Residue, +200 mesh

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