Old Hickory TI-21 Tennessee Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

TI-21 is a very low carbon content clay specifically designed for plastic forming methods. It has excellent oxidation qualities particularly for dense volume stoneware or vitreous ceramic pieces. The excellent plasticity provides outstanding jigger, ram pressing or hand throwing qualities to the formulation. The Fe2O3 and TiO2 content produces a cream white fired color for enhancing a stoneware appearance to the formula.Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-TI-21-Tennessee-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.44 µm	0.44 µm	Median particle diameter
	0.50 µm	0.50 µm	55% of particles less than
	1.0 µm	1.0 µm	65% of particles less than
	<= 5.0 μm	<= 5.0 μm	84% of particles less than
рН	6.3	6.3	
Soluble Sulfates	200 ppm	200 ppm	
Specific Surface Area	21.7 m²/g	21.7 m²/g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00355 GPa	0.515 ksi	Dry Modulus of Rupture, 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	5.2 %	5.2 %	Cone 04, Linear Fired Shrinkage
	6.4 %	6.4 %	Cone 3, Linear Fired Shrinkage
	7.0 %	7.0 %	Linear Drying Shrinkage
	8.1 %	8.1 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
AI203	27.94 %	27.94 %	
CaO	0.090 %	0.090 %	
Fe2O3	1.07 %	1.07 %	

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www.lookpolymers.com email:sales@lookpolymers.com

Component Elements Properties	n 34 % Metric	n 34 % English	Comments
Loss on Ignition(%)	9.56 %	9.56 %	
MgO	0.24 %	0.24 %	
Na2O	0.060 %	0.060 %	
Si02	58.52 %	58.52 %	
TiO2	2.14 %	2.14 %	

Descriptive Properties	Value	Comments
Absorption (%)	10.6	Cone 3, Fired
	15.5	Cone 04, Fired
	3.8	Cone 11, Fired
CEC/MBI (meg/100 ml)	8.3	
Crude Color	Light Grey	
Filtration (ml)	26	
Pyrometric Cone Equivalent (PCE)	29-31	
Water of Plasticity (%)	35	
Wet Sieve Residue (%)	0.69	Wet Sieve Residue, +200 mesh

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com Email : sales@lookpolymers.com Tel : +86 021-51131842 Mobile : +86 13061808058 Skype : lookpolymers Address : United North Road 215,Fengxian District, Shanghai City,China