

Old Hickory Taylor Blend Tennessee Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

A highly plastic clay suitable for a variety of extruded, pressed, or casting ceramic formulations. It is a fine PSD clay with low carbon content and excellent fired brightness. Information provided by Old Hickory Clay Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Old-Hickory-Taylor-Blend-Tennessee-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.41 µm	0.41 µm	Median particle diameter
	0.50 µm	0.50 µm	56% of particles less than
	1.0 µm	1.0 µm	67% of particles less than
	<= 5.0 µm	<= 5.0 µm	86% of particles less than
pH	5.4	5.4	
Soluble Sulfates	190 ppm	190 ppm	
Specific Surface Area	22.7 m ² /g	22.7 m ² /g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00362 GPa	0.525 ksi	Dry Modulus of Rupture, 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	6.1 %	6.1 %	Cone 04, Linear Fired Shrinkage
	6.9 %	6.9 %	Cone 3, Linear Fired Shrinkage
	7.5 %	7.5 %	Linear Drying Shrinkage
	8.7 %	8.7 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	28.13 %	28.13 %	
CaO	0.090 %	0.090 %	
Fe ₂ O ₃	1.15 %	1.15 %	
K ₂ O	0.34 %	0.34 %	
Loss on Ignition(%)			

Component Elements Properties	9.57 % Metric	9.57 % English	Comments
MgO	0.28 %	0.28 %	
Na2O	0.070 %	0.070 %	
SiO2	58.34 %	58.34 %	
TiO2	1.95 %	1.95 %	

Descriptive Properties	Value	Comments
Absorption (%)	11	Cone 3, Fired
	16.8	Cone 04, Fired
	3.5	Cone 11, Fired
CEC/MBI (meg/100 ml)	8.1	
Crude Color	Light Tan	
Filtration (ml)	24	
Pyrometric Cone Equivalent (PCE)	31	
Water of Plasticity (%)	38	
Wet Sieve Residue (%)	0.35	Wet Sieve Residue, +200 mesh

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